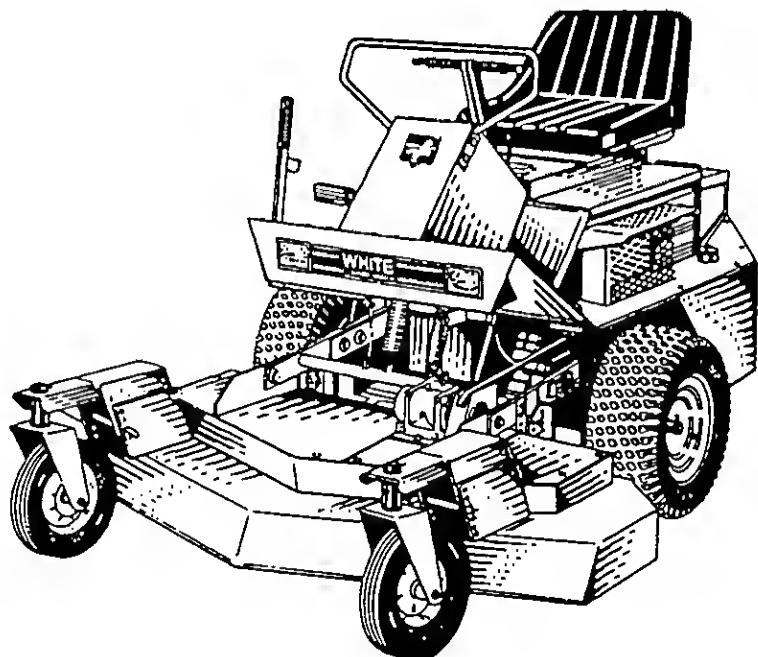


WHITE



OUTDOOR PRODUCTS OWNER'S GUIDE

**TURF BOSS
GROUNDSKEEPING TRACTOR**



FR-1800

132-013-190

FR-2000C

132-026-190

LIMITED WARRANTY

For two years from the date of original retail purchase, WHITE OUTDOOR PRODUCTS will either repair or replace at its option, free of charge, F. O. B. factory or authorized service firm any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by WHITE OUTDOOR PRODUCTS.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

A battery which proves defective within ninety (90) days will be replaced without charge. After 90 days but within one hundred twenty (120) days from the date of purchase, WHITE OUTDOOR PRODUCTS COMPANY will replace the defective battery for a charge of 1/2 of the current retail price of the battery in effect at the date of return.

Warranty on units used commercially is limited to one (1) year or as rental units thirty (30) days from original purchase.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of WHITE OUTDOOR PRODUCTS.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by WHITE OUTDOOR PRODUCTS.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.

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INTRODUCTION

Your WHITE OUTDOOR PRODUCTS Operator's Manual will assist you in the operation and servicing of FR Series Mowers. The manual will acquaint you with your machine and outline how you affect the performance and longevity of your WHITE OUTDOOR PRODUCTS Mower.

Please read the manual carefully and thoroughly, paying close attention to all Safety Alert Symbols, Warnings and Cautions (See Page 2) - Safety is always a priority!

A separate manual is provided for the engine. Please note, the engine in these tractors should be serviced by a Briggs & Stratton or Onan Service Center - when ordering parts, identify the engine model, code and type number. These numbers are located on the shrouding of both the Briggs & Stratton and Onan engines.

All parts should be replaced with WHITE OUTDOOR PRODUCTS parts from your WHITE OUTDOOR PRODUCTS dealer.

MODELS

Model FR-1800 - 18 HP
131-013-190

Briggs & Stratton Air Cooled
2 Cylinder Gas

Model FR-2000C - 20 HP
131-026-190
Onan Air Cooled
2 Cylinder Gas

TRACTOR:	Model Number _____
	Serial Number _____
DECK:	Model Number _____
	Serial Number _____
ENGINE:	Make _____
	Model Number _____
	Code Number _____
	Type Number _____

Safety Alert Symbol and Notations

The following safety notations are used throughout this manual to call attention to special information or operating procedures. Understand the message in each notation and be alert to unsafe conditions and the possibility of personal injury.

NOTE: A NOTE points out general reference information regarding proper operation and maintenance practices.

Important

An IMPORTANT statement indicates specific procedures or information that is required to prevent damage to the machine or its attachments.



This safety alert symbol is used to attract your attention! PERSONAL SAFETY IS INVOLVED! When you see this symbol - BECOME ALERT - HEED ITS MESSAGE.

Caution

A CAUTION identifies safe operating practices or indicates unsafe conditions that could result in personal injury.

Warning

A WARNING describes a condition where failure to follow the instructions could result in severe personal injury.

Danger

A DANGER designates a condition where failure to follow instructions or heed warning will most likely result in serious personal injury or death.

SAFETY FIRST

3

NOTE: DO NOT ATTEMPT TO START THE ENGINE UNTIL YOU HAVE READ THE ENGINE MANUAL.



THIS IS A SAFETY ALERT SYMBOL USED TO ALERT YOU TO POSSIBLE DANGER TO YOUR OR SOMEONE ELSE'S PERSONAL SAFETY. WHEN YOU SEE THIS SYMBOL, BE ALERT TO THE ACCOMPANYING MESSAGES IN THIS MANUAL.

⚠ Caution

Your WHITE OUTDOOR PRODUCTS Mower Is Equipped With An Ignition InterLock Safety System. This System Is Designed To Protect The Operator And Others In The Immediate Area By Preventing The Engine From Starting When The PTO Switch Is ON Or The Lever Lock Is Not In The Locked Position. This System Should Always Be Operative.

Listed below are a common set of rules you should read and follow, REMEMBER, your safety and the safety of others depends on the operator's awareness and adherence to these basic rules.

1. Remove all debris from area to be mowed. Keep persons and pets away from mowing area. Although area has been supposedly cleared of all debris, small objects may have been overlooked and may be discharged or thrown by mowing parts - causing injury to people, pets, property or to the mower.
2. To start the engine (A) lock steering levers in neutral (B) disengage PTO switch.
3. Never place hands or feet under deck while engine is running.
4. Never fill the fuel tank while the engine is hot. Wipe off any fuel that might have spilled. Replace fuel cap on tank.
5. Only persons thoroughly acquainted with rules of safety operation should be permitted to use the mower. Never allow a small child to operate, or be in the operating area of power equipment.
6. DO NOT attempt to get off or on mower when mower deck is engaged and engine is running. Wait until mower blades stop turning before getting on or off mower. Make sure the PTO is disengaged before parking mower.
7. Keep blades sharp and properly balanced. If your equipment should start vibrating, stop the engine and check for damaged or loose parts. Vibration is generally a warning of trouble.
8. When putting on new blades, make sure they are tight.
9. DO NOT attempt to clean deck housing, or to otherwise clean, adjust or repair machine before stopping mower engine. FOR YOUR OWN SAFETY, remove ignition key and disengage PTO switch.

10. Always keep all shields and guards in place. Mower must never be operated with any shields or guards removed.
11. Never leave machine running unattended. Remove key from ignition switch to prevent children from starting the mower.
12. Never run engine inside a building without proper ventilation.
13. ALWAYS operate the machine with the deck in the lowered position.
14. Always drive slowly over varied terrain to prevent tipping the mower.
15. DO NOT operate the mower at high speed going downhill and DO NOT TURN SHARP CORNERS WHILE GOING DOWNHILL. NOTE: The hydraulic pumps produce braking action when steering levers are moved toward neutral; this procedure is recommended for braking action.
16. DO NOT operate mower on inclines greater than 25%.
17. Always observe traffic laws while driving machine from one location to another.
18. Always stop the engine and inspect the machine after striking a foreign object. If damage is found, repair the machine immediately.
19. Keep all caution and safety decals legible at all times. Replace any that are damaged.

In addition to the above safety procedures for operation of the mower, the following precautions should be observed when using fuel. Its improper use, handling and storage can be dangerous:

ALWAYS USE AN APPROVED CONTAINER. PLACE CONTAINER OUT OF REACH OF CHILDREN.

NEVER ADD FUEL TO A RUNNING OR HOT ENGINE.

FILL TANK OUT OF DOORS AND WIPE UP ANY SPILLED FUEL.

POSITIVELY NO SMOKING.

DEALER PREPARATION FOR OPERATION

CUSTOMER NOTE: Your WHITE OUTDOOR PRODUCTS dealer is expected to complete these preparation steps and review important information, including this manual, with you before or upon delivery of this unit.

The preparation information is included here so that you and your dealer may review it together.

NOTE: All reference to "Left", "Right", "Front" and "Rear" are from operator seated on seat.

SEAT

Remove band from seat, raise seat lid and bolt seat to lid using lockwashers and nuts supplied. Check to see that wires to seat switch are connected.

BATTERY

Battery is shipped without electrolyte. After removing battery from tractor, fill each cell with electrolyte to level indicator.

PERFORM ALL STEPS outlined in the Machine Check List on page 5.

IGNITION INTERLOCK SAFETY SYSTEM



Danger

Failure of Ignition Interlock Safety System, together with improper operation of unit, could result in severe personal injury.

Check the Interlock Safety System to make sure it is functioning properly. Engine must not start unless steering lever lock is locked and PTO switch is off. Engine must stop if operator leaves the seat when lever lock is unlocked.

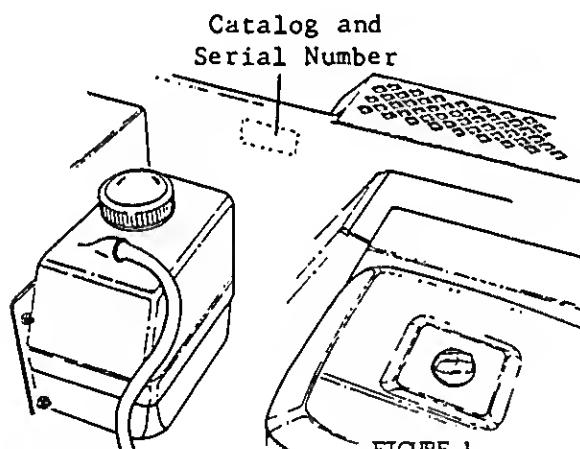
INSTALL DECK

Refer to Installation of Deck to Tractor Section of operator's manual for instructions, see page 17.

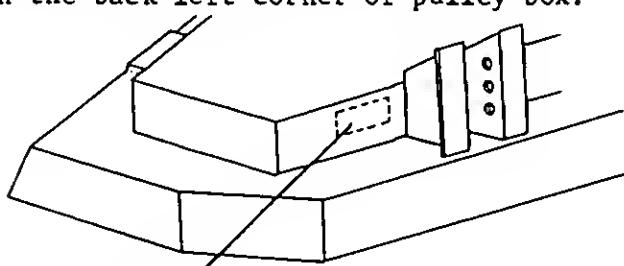
REGISTRATION

Complete Mower Delivery Report.

- Warranty is registered under catalog and serial number found on the left side of the body under the seat lid.



The deck model and serial number is found on the back left corner of pulley box.



DELIVERY

Using the operator's manual, instruct the customer on controls and operation of unit. Emphasize safety and discuss the Safety Precautions.

Important

Remind the customer to change oil in engine crankcase and engine oil filter after first 5 hours. Adjust deck belts and deck drive belt after 2 hours of operation.

MACHINE CHECK LIST

The following list should be acknowledged before a new machine is put into service:

1. Check engine oil level (See engine manual for recommendations).
2. Check oil level in hydrostatic system. The oil reservoir on the Regular Models (Plastic Reservoir) should be kept 1/2 full when oil is cold. On Commercial Model (with Metal Reservoir behind gas tank) oil level should be between 1" and 1 1/2" below top of tank when cold.
3. Fill fuel tank with fresh clean gasoline.
4. Check tension on deck drive belt and deck belts. These belts should have a 1/2" deflection on the longest span when 5 pounds of pressure is applied.
5. Check pump drive belt idler to see that it operates freely and applies tension on belt.
6. Check pressure in all tires (See Tire Pressure Chart, Fig. 2A). The tire pressure must be the same in each drive wheel. This also applies to the deck gauge wheels.

TIRE	PRESSURE PSI
Drive Wheels	10 to 14
Tail Wheel	10 to 18
Gauge Wheels	8 to 14

FIGURE 2A

MACHINE OPERATION

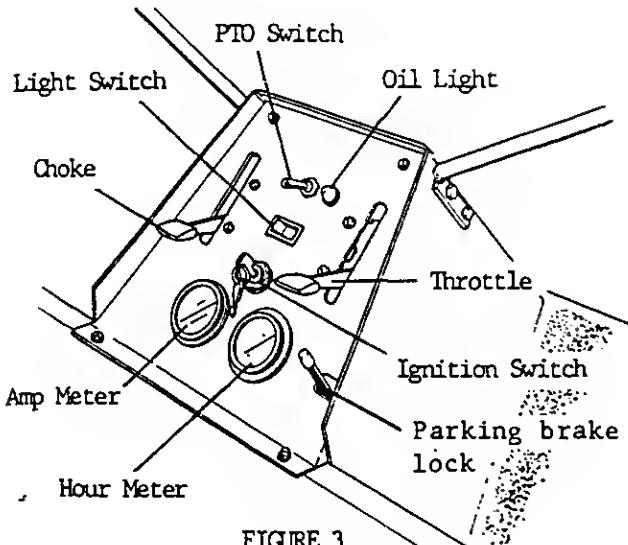


FIGURE 3

STARTING AND STOPPING THE ENGINE

NOTE: The engine starter will not engage unless the steering levers are LOCKED in neutral and the PTO switch is in the OFF position. This is identified as the IGNITION INTERLOCK SAFETY SYSTEM.

! Warning

Never operate machine with Ignition Interlock Safety System disconnected, bypassed or malfunctioning.

! Warning

Engine exhaust gases contain poisonous carbon monoxide. Avoid inhaling fumes and never run the engine in a closed building or confined area.

1. Move the choke to the CLOSED position. On a warm engine (normal operating temperature) place the choke in the OPEN position.
2. Open throttle midway between SLOW and FAST position.
3. Turn key to START. Return key to ON when engine starts.
4. Gradually return the choke to the OPEN position after the engine starts and warms up.

! Caution

Do not crank the engine continuously for more than 10 seconds at a time. If the engine does not start, allow a 60 second cool-down period between starting attempts. Failure to follow these guidelines can burn out the starter motor.

! Caution

Always start the engine with the park brake ON. This clutches the belt to the hydrostatic pumps to keep the tractor from creeping upon start-up and reduces wear on the starter motor.

TO STOP THE ENGINE

1. Run the engine at half throttle for a minimum of 15 seconds under no load to cool it down.
2. Turn ignition key to OFF and remove the key.

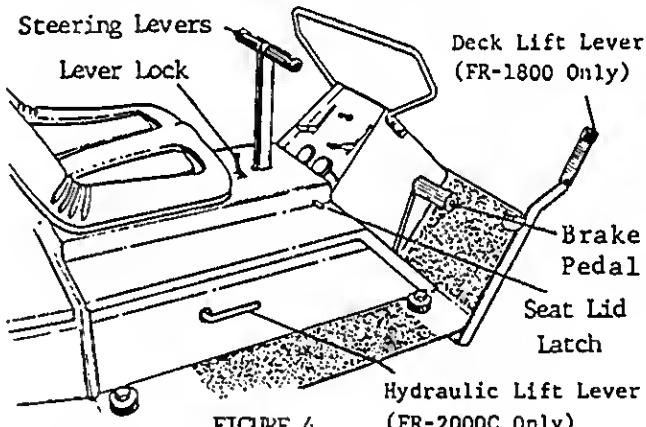


FIGURE 4

DRIVING

After starting engine, place parking brake in run and unlock lever lock. If the lever lock is unlocked while the parking brake is on, it will kill the engine. Steering levers control forward and reverse movement as well as turning and braking. Each lever controls the direction of the corresponding drive wheel. To turn the machine to the right, move the right lever back and/or left lever forward. To turn the machine to the left, move the left lever back and/or the right lever forward.

! Caution

Any sudden movement of levers will result in sudden braking or opposite direction of travel.

BRAKING

Forward or reverse movement is slowed or stopped by returning the steering levers toward the neutral position.

ENGAGING PTO

The PTO switch, at the upper center of the dash panel, activates the electric clutch. To engage, set the engine throttle to 1/3 speed and pull out and up on PTO switch.

⚠ Warning

Operator must be in the seat for the PTO to activate. When rotary mower is being used, extreme care must be taken not to direct discharge in the direction of persons or pets.

Again, the PTO will only activate if seated in operator's seat and the deck safety switch is plugged in.

LIFTING THE ATTACHMENTS

⚠ Warning

Never travel at road speeds with attachment in raised position.

FR-1800

The attachments for the tractor are raised and lowered by a hand lever located at the right front of the tractor. By pulling the lift lever back and down, it can be latched under the body frame to hold the attachment in the raised position for service and to clear obstacles.

An optional electric lift can be installed by which the attachment is raised and lowered by a two-way switch located on the dash. When operating with an electric lift, the lift should be fully extended, or all the way down, to allow the attachment to float.

FR-2000C

The attachments for the tractor are raised and lowered by a hydraulic valve located on the right side of the operator's seat. Raising the lever to the upmost position retracts the cylinder and raises the

attachment. The next notch down will hold the attachment at a set position. The lowest position will lower the attachment and allow it to float with the terrain.

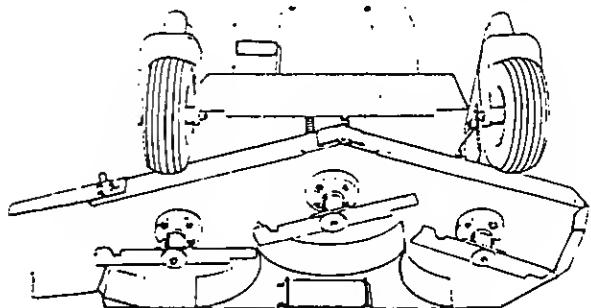


FIGURE 5

TILTING DECK FOR SERVICE

⚠ Warning

Never handle the deck while the tractor engine is running.

1. SHUT THE ENGINE OFF and remove the key.
2. Stand in front of the deck facing tractor. Push on lift lever enough to remove the two deck pins.
3. Push on lift lever to raise deck a little and with the other hand raise the front of the deck into an upright position. Release the lift lever and lower the deck to the ground.
4. Place one of the deck pins in the hole to lock the deck up.
5. To lower the deck, remove deck pin and lower front of the deck to the ground. Push on the lift lever and replace deck pins at desired cutting height.

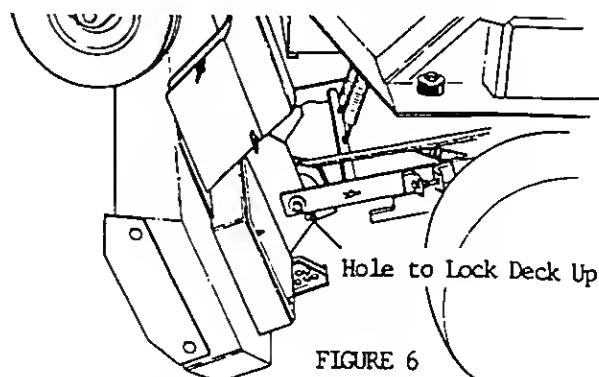


FIGURE 6

LUBRICATION AND MAINTENANCE

⚠ Warning

When servicing machine, stop engine, remove key and engage lever lock and parking brake.

Routine lubrication and maintenance is the most important step toward low upkeep, long machine life, satisfactory service and a quality mowing.

QUICK REFERENCE MAINTENANCE SCHEDULE

REF	SERVICE AT INTERVALS INDICATED	DAILY PRESTART	DAILY AFTER STOPPING	EVERY					ANNUALLY OR 100 HR.
				4 HR.	8 HR.	25 HR.	40 HR.	50 HR.	
A	Verify Ignition Interlock Safety System	X							
A	Check Engine Oil Level	X			X				
A	Check Fuel Level	X			X				
A	Check Hydraulic Oil Level	X							
A	Clean Oil Cooler (1)	X			X				
A	Visually Inspect Tractor	X							
A	Visually Inspect Tires	X							
A	Clean Underside of Deck		X						
A	Lube Deck Gauge Wheels				X				
A	Lube Tail Wheels				X				
B	Clean Air Filter Element (1)					X			
A	Lube Gauge Wheel Fork Tubes						X		
A	Lube Tail Wheel Fork Tube						X		
A	Check Crease in Gearbox							X	
A	Lube Spindle Housing			X					
A	Check Battery and Connections						X		
C	Change Engine Oil (2)							X	
C	Change Engine Oil Filter (2)							X	
B	Clean Air Filter Paper Cartridge (1)								X
A	Check Tire Pressure With Gauge								X
A	Torque Wheel Nuts								X

NOTES:

- (1) More often under dusty conditions and when mower is equipped with center discharge deck
- (2) Initial oil and filter change is at 5 hours

REFERENCE:

- A - See Owner's Manual
- B - See Engine Manual
- C - See Both Owner's and Engine Manuals

FIGURE 7

IGNITION SAFETY SYSTEM

Check tractor Ignition Interlock Safety System daily, prior to operation. This system is important to the safety of persons in the area. It should be repaired immediately if malfunctioning. To check the system follow these steps:

1. Begin with parking brake engaged, PTO switch off and lever lock engaged.
2. Disengage lever lock and turn the ignition key to start position. The starter motor should not respond.

3. Lock the lever lock and turn PTO switch on and turn ignition key to start position. Starter motor should not respond.

If starter responds to either of these tests, turn off ignition and make corrections immediately. Otherwise, proceed with other preoperative checks.

SEAT SWITCH

The seat switch should be checked before each operation. The machine should not be operated with an inoperative switch. To check seat switch:

1. Start engine while seated in operator's seat. Unlock the lever lock and raise from the seat - the engine should quit.
2. Return the lever lock to lock position and restart engine. Engage PTO switch and raise from the seat - the deck should disengage.

If engine fails to quit or deck does not disengage, turn off ignition switch and correct immediately.

BREAK-IN SERVICES

A new engine requires special break-in maintenance services. Read the appropriate section of the owner's manual. Engine oil and filter should be changed after the first 5 hours of operation.

ENGINE OIL SYSTEM

Check engine oil level at the start of each day and again after 4 hours of operation. Oil must always be between the marks on the dipstick.

Change engine oil after the first 5 hours of operation. Refer to engine manual for oil change intervals after the initial change.

To change oil, park tractor on level surface, remove ignition key, lock the lever lock and apply parking brake. Remove drain plug from bottom of engine. Remove oil filter (which is located in front of engine). Lubricate gasket on new filter with new engine oil and install. Tighten filter by hand only. Replace oil drain plug.

Add new oil through oil port plug. When adding new oil, check level with dipstick (DO NOT OVERFILL). See engine manual for oil capacity, API service class and viscosity.

Warning

During normal operation oil heats to a level that may cause severe burns. Allow engine to cool before servicing.

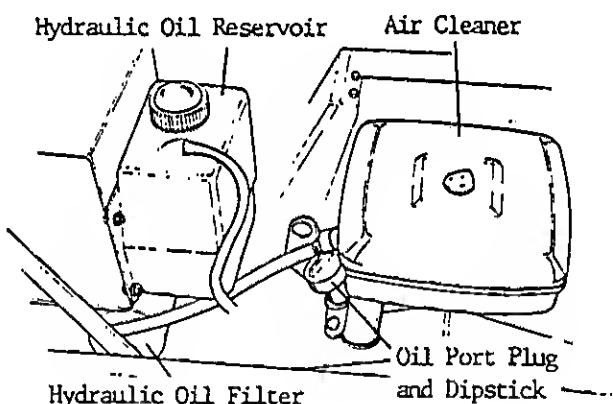


FIGURE 8

HYDRAULIC SYSTEM

Caution

Care must be taken to keep any dirt or moisture from entering the hydraulic system. Minute amounts of either will greatly reduce the life of the components.

The hydraulic system reservoir is located under the seat lid (plastic tank) on Regular Model and under the back cover (metal tank) on the Commercial Model.

Check hydraulic oil level daily. Oil level in plastic tank should be half full, in metal tank 1" to 1 1/2" below top of tank.

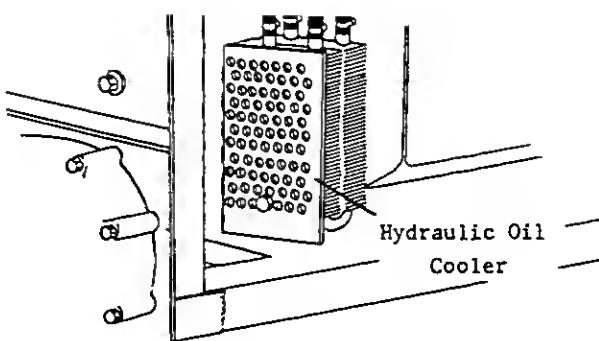
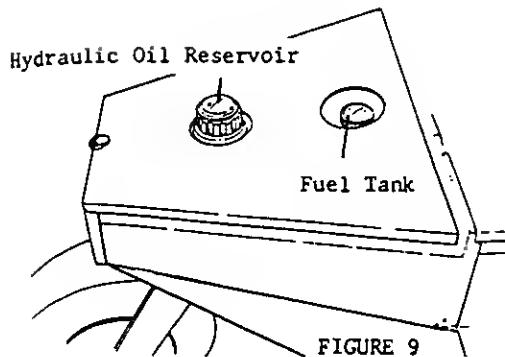


FIGURE 9A

⚠ Caution

Use only 20W hydraulic fluid (Part No. 999-2006) in the hydraulic system.

NORMALLY no hydraulic filter change should be required during the life of the drive system.

NOTE: Exception to the above is made if the tractor drive performance becomes sluggish in which case it is recommended that the filter be changed. Great care must be taken to insure that ALL PARTICLES that may cause contamination to the system be removed from around filter and housing before removal.

To clean around filter before removal, use a solvent and brush to remove soil and dirt. Then use compressed air to final clean the area.

Only filters supplied from White Outdoor Products should be used as they have been precleaned.

When a leak is detected in the hydraulic system, stop the machine at once and repair the leak. Once repaired, refill hydraulic reservoir.

⚠ Caution

On FR-1800, after Serial Number 04-027-012814, the hydraulic oil cooler must be kept clean. Failure to do so will cause the oil to over heat and greatly reduce the life of the hydrostatic pumps.

The hydraulic oil cooler may be cleaned utilizing compressed air (maximum pressure of 100 PSI). More frequent cleaning is required when the mower is equipped with the center discharge deck.

⚠ Warning

Hydraulic oil escaping under pressure can penetrate skin. Before applying pressure to hydraulic system, make sure all connections are tight and all hoses and lines are in good condition. To find a leak under pressure, use a piece of cardboard or wood - NEVER use your hands. Lower all attachments, shut engine off and remove key before opening any hydraulic lines. Eye protection should be worn when servicing hydraulic system.

It is important to keep the transmission pump's fins and cooling fans clean at all times. If a cooling fan becomes damaged it should be replaced with a new one.

LUBRICATION

There are 9 grease zerks on the machine. The deck gauge wheel axles (2 zerks) and tail wheel axle (1 zerk) should be greased every 8 hours. The spindles (3 zerks), gauge wheel fork tubes (2 zerks) and tail wheel fork tube (1 zerk) should be greased every 40 hours.

Use a SAE multi-purpose gun grease on all zerks. Do not use more than one or two pumps from grease gun each time.

LUBRICATION REFERENCE GUIDE

1	Gauge Wheel Axle Bearings	8 Hrs.
2	Gauge Wheel Fork Bearings	40 Hrs.
3	Spindle Bearings	8 Hrs.
4	Tail Wheel Fork Bearings	40 Hrs.
5	Tail Wheel Axle Bearings	8 Hrs.
	Cross Shaft Bearings	40 Hrs.

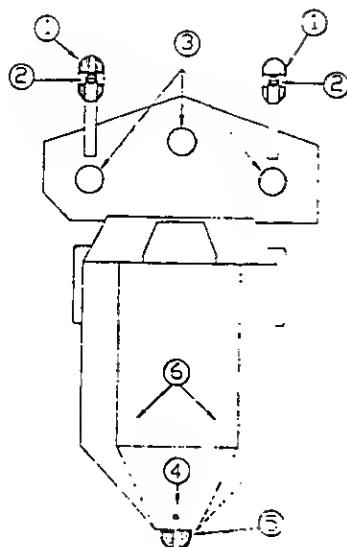


FIGURE 10

DECK GEARBOX

The gearbox is shipped filled with synthetic grease. It should be kept full at all times. If grease should be needed, use Mobil Mobilith SHC 460 synthetic lubricating grease (Part No. 999-2010) or its equivalent. Use a grease gun to fill the box until grease appears from the vent plug.

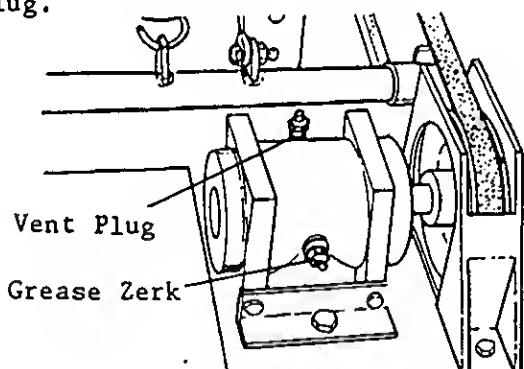


FIGURE 10A

COOLING SYSTEM

! Warning

Never attempt to clean or make adjustments on the engine while it is running.

Grass, chaff or dirt may clog the rotating screen and the air cooling system. Yearly or every 100 hours remove cooling shrouds and clean cooling fins. Also clean dust, dirt and oil from external surfaces of engine which can cause improper cooling. In extremely dusty or dirty conditions, or when the mower is equipped with the center discharge deck, clean more often.

Important

Do not operate engine without cooling shrouds installed. Operating the engine without cooling shrouds will cause engine damage due to overheating.

ENGINE AIR FILTER

Clean and reoil foam precleaner every 25 hours. Every 100 hours the paper cartridge should be removed and cleaned. Perform these procedures more often in dusty conditions. See your engine manual for further instructions on air cleaner care.

FUEL SYSTEM

The fuel tank is located under the tail cover just back of the operator's seat. Capacity of the fuel tank is 5 gallons. Always keep and use clean, fresh fuel. Regular UNLEADED gasoline with a minimum 87 octane rating is recommended. Leaded gasoline may be used if unleaded is not available.

NOTE: WE DO NOT recommend the use of gasoline which contains alcohol, such as gasohol. However, if gasoline with alcohol is used, it MUST NOT contain more than 10% Ethanol and MUST be removed from engine during storage. DO NOT use gasoline containing Methanol.

! Warning

Observe usual fuel handling precautions. Do not smoke while refueling. Do not fill tank with engine running or while engine is hot. Allow engine to cool before storing machine inside a building. Keep fuel away from open flame or spark. Read and observe all safety precautions in this manual.

An inline fuel filter is located under the seat lid between the engine and fuel tank. If the filter becomes plugged, it should be replaced.

There is a fuel shutoff valve located on the bottom of the fuel tank. This valve should be closed to prevent fuel loss when changing filters, doing other engine work or transporting the machine.

ELECTRICAL SYSTEM

The electrical system is 12 volt, negative ground. Factory installed battery is a size U1L9, 235 CCA. The battery is located under tail cover of the tractor.

Check battery connections every 40 hours to ensure they are clean and tight. At the same time check for proper electrolyte level.

! Warning

When charging battery, keep away from open flame or sparks. Do not breathe the battery fumes. Avoid skin contact with battery acid. Wear eye protection. If contact does occur, flush area with cold water and consult a physician.

! Warning

When jump starting a low or dead battery, follow these procedures to avoid sparks that could cause battery gases to explode:

1. Attach the first jumper cable from the positive (+) terminal of the good battery to the positive (+) terminal of the dead battery.
2. Attach the second jumper cable from the negative (-) terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.

A 30 amp fuse, located under the seat lid next to the starter solenoid on the back of the engine compartment, protects the electrical system. If there is an overload on the circuit, the fuse will blow. The cause of the blown fuse should be located and fixed before a new fuse is installed.

EXTERIOR SURFACE

Exterior surface of tractor should be washed regularly (a minimum of monthly) but more often in corrosive environments. Spray paint is available from your dealer to cover scrapes and chips and to protect against rust.

Mower deck should be cleaned after each cutting for best cutting results. If cleaned before clippings have dried, water pressure from a garden hose can be used to clean underside of deck housing. If clippings have dried, a putty knife may be used to remove accumulation from under the deck.

Every 40 hours remove the deck covers and clean debris from pulley box. Do not operate machine without covers in place. To tilt the deck for cleaning, see Machine Operation Section, TILTING DECK FOR SERVICE.

TIRES AND WHEELS

Visually inspect tires daily. Check tire pressure with gauge every 100 hours or whenever tires appear low. Tire pressure in both drive tires should be equal and set at 10 to 14 PSI. Tail wheel tire pressure should be 10 to 18 PSI. The deck gauge wheel tire pressure may vary depending on ground conditions - a minimum of 8 PSI to a maximum of 14 PSI may be used. Always keep pressure equal in gauge wheels to maintain even cutting.

STEERING CABLE ADJUSTMENT

Tractor has been preadjusted at the factory so that it will not creep forward or backward when engine is running and lever lock engaged. However, if tractor should begin to creep, the situation may be corrected as follows:

! Warning

Do not attempt to adjust steering cables until you have read this entire section. Stop engine while placing the tractor on blocks.

1. Block up tractor so that both drive wheels do not touch ground and are free to move. Block tail wheel and gauge wheels so that tractor will not fall from blocks.
2. Run engine and move steering levers back and forth.
3. Lock steering levers in neutral.

4. Drive wheels should not be turning. If they are, raise seat lid and adjust steering cable by loosening nuts on end of cable.

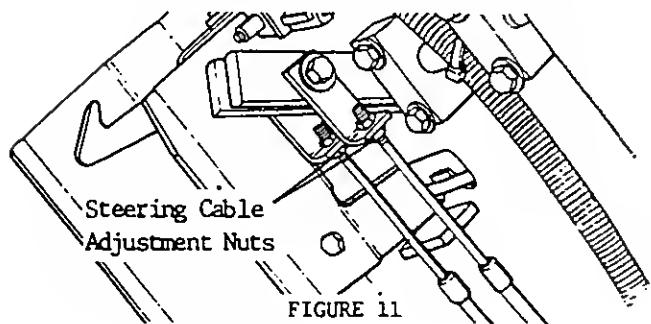


FIGURE 11

5. Adjust cable so drive wheels are not turning.

6. Lower seat lid and wiggle levers in lock position. If drive wheels do not turn, proceed with step 7. If wheels turn, repeat steps 4 and 5.

7. Shut the engine off. Unlock the steering levers and place the levers in the full forward position. The levers must rest against the front edge of the notch in the seat lid (see Figure 11A). If levers do not rest against the front edge of the notch, proceed to Step 9, if not, perform Step 8.

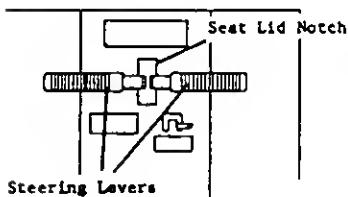


FIGURE 11A

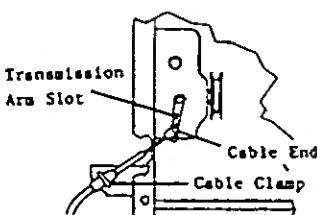


FIGURE 11B

8. If the steering levers will not rest against the front edge of the notch in the seat lid, the cables must be repositioned to prevent cable breakage. To correct, loosen the cable clamp at the base bracket (see Figure 11B) and pull the cable away from the transmission arm as far as possible and retighten the clamp. If the steering lever still will not bottom out in the notch, the

cable clamp holes will need to be elongated. Once the cables are set where they do not bottom out, repeat Steps 4 through 5 to reset neutral.

9. Unblock the machine and test drive. The machine should drive in a straight line with the steering levers held even with each other. If it does, adjustments have been completed. If the machine veers to one direction, proceed to Step 10.

10. To make the machine drive in a straight line, loosen the bolt on the cable end at the transmission arm on the side that the tractor veers toward. Slide the cable end forward in arm slot 1/8 to 1/4 inch and retighten bolt (see Figure 11B). Test drive machine again to check if further adjustment is needed. Once the machine is driving straight, you will need to repeat Steps 4 through 5 to reset neutral.

11. Raise seat lid and make sure cable nuts are tight. Adjustment is complete.

NOTE: If there is not enough adjustment to cables at the steering levers, adjustment can also be made on the steering cable at the transmission arm.

BRAKE ADJUSTMENT

Occasionally test the brake for proper adjustment by backing the machine onto a 25° incline. With engine running, engage lever lock and apply parking brake. The tractor should remain in position. If not, follow these steps to adjust brake:

FR-1800 (Prior to Serial Number 41-027-012814)

1. Block up side of tractor that does not hold.
2. Shorten brake linkage rod by turning locknut clockwise. (See Fig. 12).
3. Apply parking brake and try to rotate wheel forward by hand.

4. If you can rotate wheel forward by hand, repeat steps 2 and 3. If not, unblock tractor and repeat on other side.

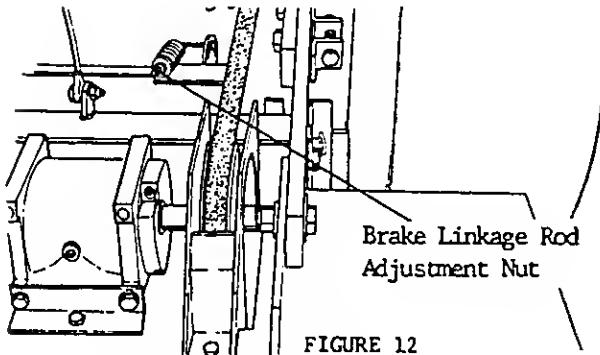


FIGURE 12

FR-1800 (After Serial Number 41-027-012814)

1. Block up side of tractor that does not hold.
2. Apply parking brake.
3. Shorten brake linkage rod by turning locknut clockwise (see Fig. 12A) until wheel can not be turned by hand.
4. Repeat above steps on the other side if needed.

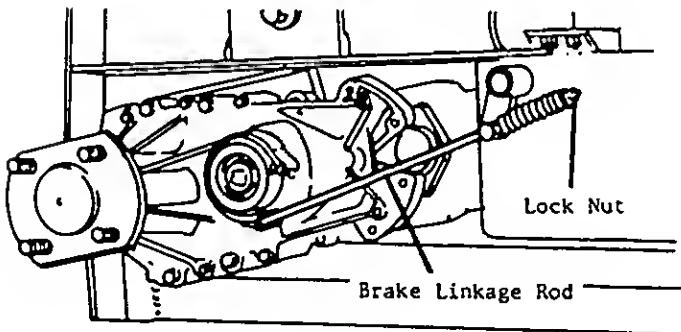


FIGURE 12A

FR-2000C

1. Block up side of tractor that does not hold.
2. Adjust brake by loosening nuts on brake cable and shortening the length of the cable.
3. Apply parking brake and try to rotate wheel forward by hand.
4. If you can rotate wheel forward by hand, repeat steps 2 and 3.

If not, unblock tractor and repeat on other side.

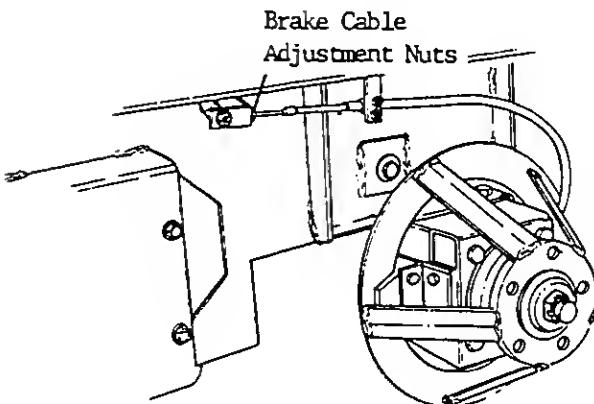


FIGURE 13

The incline test should be repeated after adjustments have been made on the parking brake.

ELECTRIC CLUTCH ADJUSTMENT

It may become necessary to adjust the electric clutch. One sign that the clutch clearance is too wide is when the clutch will engage when the tractor is cool, but will not when it is warm.

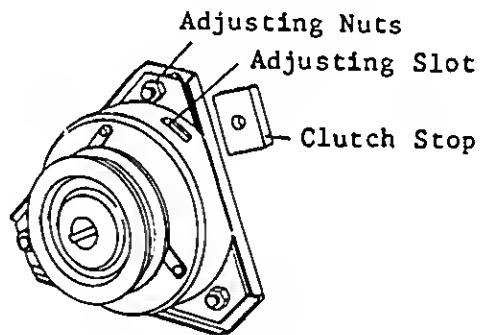


FIGURE 13A

To adjust clutch, follow these steps:

1. Unplug electrical connector to clutch.
2. Remove clutch stop so the clutch body can be rotated.
3. Place a .012 feeler gauge in the oblong slot by the adjusting bolt. Adjust so that the gauge starts to drag. Adjust all three bolts the same.
4. Once adjustments are made, all three points should be checked again because adjusting one may change the others.

- Reinstall the clutch stop and plug in the electrical connector.

DECK HEIGHT ADJUSTMENT

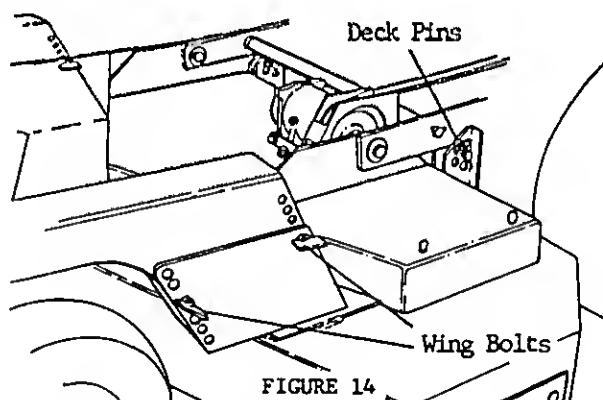
Cutting height of all decks on all air cooled models is 1" to 4". Place mower on level surface. Turn ignition key off and remove key.

Warning

Stop the engine. Make sure the PTO switch is off. Engage lever lock and remove ignition key before getting off machine.

Raise deck and lock in the raised position. Remove the gauge wheel wing bolts and move gauge wheels up or down to desired height. Replace wing bolts and tighten handle nuts. Remove rear deck pins and adjust back of deck. For best cutting results, in most conditions, the back of the deck should be 1/8" to 1/4" higher than the front.

Lower the deck to the ground and check cutting height.



BLADE CARE

For best results, cutting blades must be kept sharp.

Danger

Never work with blades while engine is running or the PTO switch is on. Engage lever lock and remove ignition key.

To service blades, tilt and lock the deck up to remove blades. Do not sharpen blades while on the deck. Blades may be sharpened on a grinder or by filing. When grinding, care should be taken to maintain blade balance. A balancer should be used

to check blade balance before reinstallation on mower. Unbalanced or bent blades will cause excessive vibration and decrease the life of the deck parts.

Remount the blades making sure the convex side of spring washer is away from blade.

Warning

Do not use any form of heat to straighten a bent blade. Do not weld a cracked or broken blade. Replace it.

BELT ADJUSTMENT

Warning

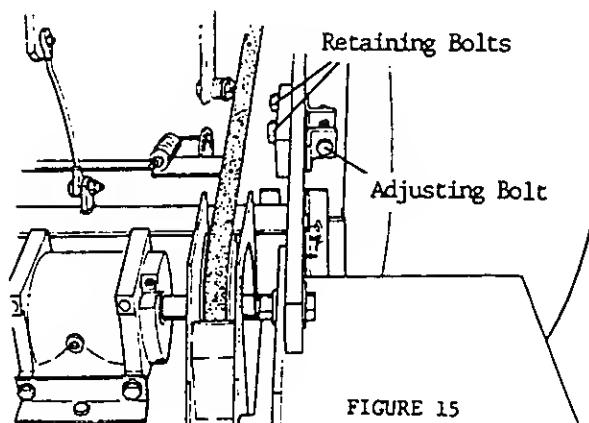
Never check or adjust any belts with engine running or the PTO switch on.

NOTE: DO NOT over tighten any belt. A belt that is too tight will run hotter, create unnecessary side pressure on bearings and cause premature failure of both the belt and bearings.

DECK DRIVE BELT

Follow these steps to adjust deck belts:

- Loosen the two deck arm retaining bolts on both arms.
- Turn adjusting bolt counter-clockwise to tighten belt. BOTH ARMS MUST BE KEPT AT THE SAME LENGTH. Deflection from center line should be 1/2" with 5 lbs. of pull on deck drive belt.
- Hold deck arms so that they are straight while retightening the deck retainer bolts.



To Replace Deck Belts:

1. Loosen deck arm retainer bolts on left-hand arm. Turn adjusting bolt clockwise to loosen deck drive belt.
2. Remove belt guard from gearbox mount.
3. Remove cross bar pin from left-hand arm.

Caution

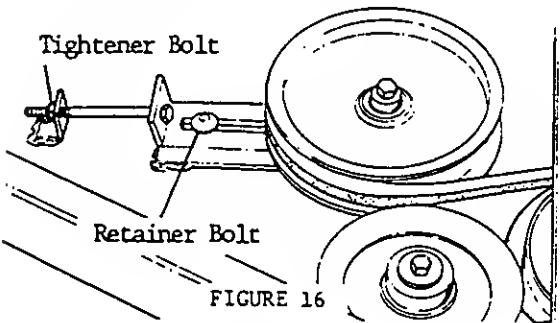
Care must be taken when removing cross bar pin as the deck springs will cause the cross bar to fly up when pin is removed.

4. Remove belt and install new belt.
5. Reverse steps 1 through 3.
6. Adjust tension on belt (See instructions above). Tension on new belts should be checked after 2 hours of operation.

DECK BELTS

Care should be taken to keep tension equal on both deck belts on the 42" deck. Follow these steps to adjust deck belts:

1. Remove deck covers.
2. Loosen nut on belt tightener retainer bolt.
3. Adjust tightener bolt to obtain proper tension on belt. Deflection on longest span of belt should be 1/2" to 5/8" with 5 lbs. of pull on deck belts.
4. Retighten retainer bolt and replace covers.



1. Loosen deck drive belt (See Deck Drive Belt Section).
2. Remove deck covers.
3. Loosen belt tightener retainer bolt and tightener adjustment bolt.
4. Unbolt gearbox mount from deck and remove belts from under gearbox pulley.
5. Remove old belts from spindle pulleys.
6. Replace with WHITE OUTDOOR PRODUCTS replacement belts.
7. Place belts in right grooves on the gearbox pulley and rebolt gearbox mount.
8. Adjust belts (See instructions above). Tension on new belts should be checked after 2 hours of operation.
9. Replace deck covers.
10. Adjust deck drive belt (See Deck Drive Belt Section).

PUMP DRIVE BELT

The pump drive belt is kept tight by a spring loaded idler. No adjusting is necessary, but the idler should be checked periodically to see that it slides properly.

To Replace Pump Drive Belt:

1. Remove belt retainer from engine pulley.
2. Remove belt retainer from pump pulley.
3. Remove 1 1/16" spacer from between pump fan and pump cross shaft.
4. Apply parking brake and lock.
5. Remove belt from engine pulley and then from pump pulley and fan.

6. Install new belt over pump pulley, then engine pulley and reverse steps above.

To deactivate the pumps, push the plunger in and retain by placing the bail over the end of the plunger.

FR-1800 (After Serial Number 41-027-012814)

STORAGE

End of Season Machine Care:

When storing tractor at end of season, the following steps should be taken to insure readiness for the next mowing season:

1. Remove all grass, dirt and trash from tractor and deck. Wash both the tractor and deck, including the underside of deck.
2. Check thoroughly for any worn or damaged parts that need replacing - order them from your dealer.
3. Thoroughly lubricate machine according to lubrication instructions.
4. Lightly oil the underside of deck to prevent rusting.
5. Drain fuel tank and run engine to remove all gas from the carburetor.
6. Perform separate engine preparations as outlined in engine owner's manual.
7. Protect battery from freezing temperatures. Occasionally recharging battery during storage will extend battery life.
8. Store tractor in a dry place away from sparks or flame.

MOVING TRACTOR WITH ENGINE INOPERATIVE

FR-1800 (Before Serial Number 41-027-012814)

Model 7 Eaton pumps are equipped with a dump valve. On the right-hand transmission it is located on the back side of the pump. The left-hand transmission's valve is located on the front side of the pump.

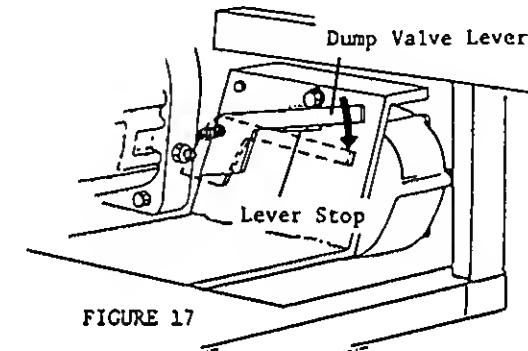


FIGURE 17

INSTALLATION OF 42", 52" AND 62" DECKS

The following steps are suggested for installation of the deck:

1. Remove deck from the packing crate and place on level surface in front of tractor.
2. Remove the two 1/2" bolts and bushings from the deck mounts. Remove 1/2" deck pins from deck adjustment holes in back of deck.
3. Remove belt guard from deck gearbox pulley.
4. Push both arms down at the same time to align holes in arms with the holes in the deck mounts. Once arms are down, one arm may be released while you place the bolt and bushing in the first arm. Push the other arm back down and install bolt and bushing.

NOTE: If machine is equipped with an electric lift, it must be run to its lowest position before you can attach arms to the deck.

NOTE: If machine is equipped with a hydraulic lift, lower arms by starting tractor, placing control valve in the float position and pushing down on lift arms.

5. Place deck drive belt over the gearbox pulley and replace belt guard.
6. Raise deck lift arms enough to install deck pins at desired cutting height.
7. Raise the deck with lift arms and lock in the raised position. Install the front gauge wheels and mounts at desired cutting height.
8. Lower deck to ground and adjust deck drive belt (See Belt Adjustment Section).
9. Install Fas-tatch foot guard and plug the deck safety wires into the deck safety switch.
10. Check blade bolts to be sure they are tight. Also remove pulley box covers and check the deck belt tension.

NOTE: Tail Weight Kit for 62" Deck

62" decks are shipped with a 39 lb. weight kit. The weights are to be added to the 45 lb. tail weight shipped with the tractor.

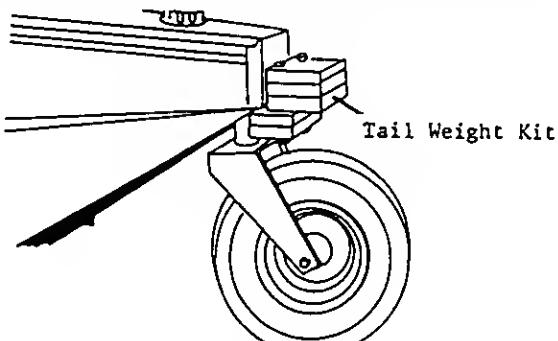


FIGURE 18

1. After installing the tail weight to the tractor, bolt the 3

individual weights to the tail weight with bolts supplied.

Warning

When running the deck be sure that the area is clear of persons and pets. Only operate the deck while sitting in the operator's seat.

DUAL TAIL WHEEL KIT

NOTE: If machine is equipped with a tail weight, it must be removed to mount the dual tail wheels.

1. Place jack under back of tractor base and raise tail wheel high enough to remove fork from tail wheel fork tube.
2. Remove 1" set collar from top of tail wheel fork shaft. Filing the burr left by the setscrew from the fork shaft will ease the fork removal. Drive the two bearings from the tail wheel fork tube.
3. Install dual tail wheel mount placing two 5/16" x 3/4" bolts through the back plate of body and dual tail wheel mount. Place tube block into tail wheel fork tube. Run 1/2" bolt down through tube block and dual tail-wheel mount. Tighten all bolts to mount.
4. Place dual tail wheel axle into mount with long end of tube to front. Install 1" pivot axle and lock with setscrew.
5. Install tail wheel forks and tail wheels. Lock setscrews.
6. Lower machine to ground and check to see if tractor is level from front to back. If not, adjust collars up or down on tail wheel forks to level tractor.

TRACTOR TROUBLE SHOOTING GUIDE

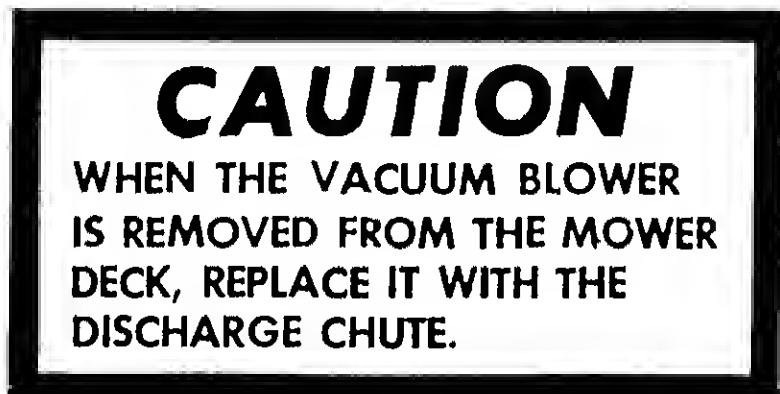
SYMPTOMS	PROBABLE CAUSES	SUGGESTED REMEDIES
Starter Does Not Crank	Ignition Interlock Safety System not Engaged	Engage System
	PTO Switch in ON Position	Put Switch in OFF Position
	Weak or Dead Battery	Recharge or Replace Battery
	Fuse Blown	Replace Fuse
	For Additional Causes	See Engine Manual
Engine Cranks But Does Not Start	No Gas or Line Plugged	Fill Tank or Replace Line
	No Fire at Spark Plug	Clean or Replace Spark Plug
		See Engine Manual or Dealer
	Numerous Other Causes	See Engine Manual or Dealer
Engine Runs with Loss of Power or Excessive Black Exhaust	Restriction in Air Cleaner	Service Air Cleaner
	Poor Compression or Timing	See Engine Manual or Dealer
Tractor Jerky When Starting or Tractor Operates in One Direction Only	Steering Cables Need Adjustment	Adjust Cables
	Pump or Wheel Motor Faulty	See Your Dealer
	Oil has been Contaminated with Water or Dirt	Drain Oil From System and Replace or See Your Dealer
Hydraulic System Operating Hot	Damaged or Broken Fan	Replace Fan
	Cooling Fins Plugged	Clean Cooling Fins
	Hydraulic Pump Faulty	See Your Dealer
Tractor Creeps When Steering Levers are in Neutral	Steering Cables Out of Adjustment	Adjust Steering Cables
Tractor Creeps or Veers in One Direction	Steering Cables Out of Adjustment	Adjust Steering Cables
	Wheel Motor Faulty	See Your Dealer
	Hydraulic Pump Faulty	See Your Dealer

TRACTOR TROUBLESHOOTING GUIDE (Cont.)

SYMPTOMS	PROBABLE CAUSES	SUGGESTED REMEDIES
Tractor Creeps With Parking Brake On	Brake Out of Adjustment	Adjust Parking Brake
Engine Overheating	Intake Screen Clogged	Clean Screen
	Cooling Fins Clogged	See Engine Manual for Cleaning
Engine Oil Pressure Low	Low Oil Level	Add Oil
	Oil Sending Unit Faulty	See Your Dealer
	Oil Diluted or Grade Too Light	Change Oil and Check for Source of Contamination
Amp Meter Shows Discharge	Wiring Defective	See Your Dealer
	Alternator Defective	See Your Dealer
High Oil Consumption Engine Knocks and Other Engine Noises	Numerous Causes	See Engine Manual
Electric Clutch Will Not Engage	Deck Safety Wires Not Plugged In	Plug Wires In
	Loose or Faulty Wiring	Check Wiring
	Seat Switch Faulty	Change Seat Switch
	Clutch Out of Adjustment	Adjust Clutch
Grass Cut Uneven	Deck Height Adjustment Not Even on Both Sides	Adjust Height
	Tire Pressure Uneven	Check Tire Pressure
	Blade Bent	Replace Blade

DECK DECALS

These decals have been placed on the deck to instruct the operator and to warn of safety hazards. It is very important that they be in place and visible at all times. Replace damaged or missing decals immediately! Order by the part numbers shown below.



DO NOT OPERATE MOWER UNLESS
 THIS GUARD OR ENTIRE GRASS-
 CATCHER IS IN ITS PROPER PLACE.



TRACTOR DECALS

These decals have been placed on the tractor to instruct the operator and to warn of safety hazards. It is very important that they be in place and visible at all times. Replace damaged or missing decals immediately! Order by the part numbers shown below.

OPERATION OF CONTROLS

CAUTION! READ OPERATING
MANUAL BEFORE OPERATING
THIS MACHINE

CONTROL THE SPEED THROUGH THE
USE OF TRANSMISSION CONTROL ONLY.

FORWARD
NEUTRAL
REVERSE

900-5541

900-5541

CAUTION

THIS MACHINE HAS AN IGNITION INTER-
LOCK SAFETY SYSTEM ALL CONTROLS
MUST BE IN NEUTRAL BEFORE THE
ENGINE WILL START.

900-5543

FUEL ONLY

P N 900-5671

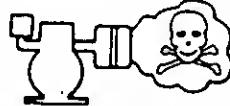
900-5543

900-5671

HYDRAULIC OIL

P/N 900-5672

900-5672

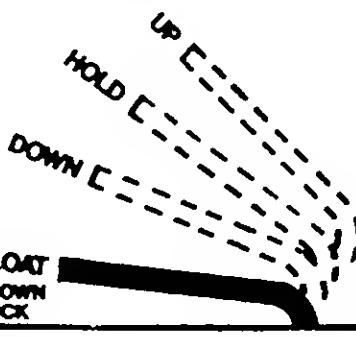
DANGER

ENGINES PRODUCE CARBON MONOXIDE
WHICH IS AN ODORLESS DEADLY POISON
DO NOT OPERATE IN AN ENCLOSED AREA

900-5723

CAUTION

WHEN MOWING OR
TRANSPORTING
KEEP HYDRAULIC
VALVE IN FLOAT
POSITION!



P/N 900-5673

900-5673



900-5544

CAUTION! TRANSMISSION COOLER
MUST BE KEPT CLEAN
►►► SEE OPERATORS MANUAL ◀◀◀ 9009000

900-9000

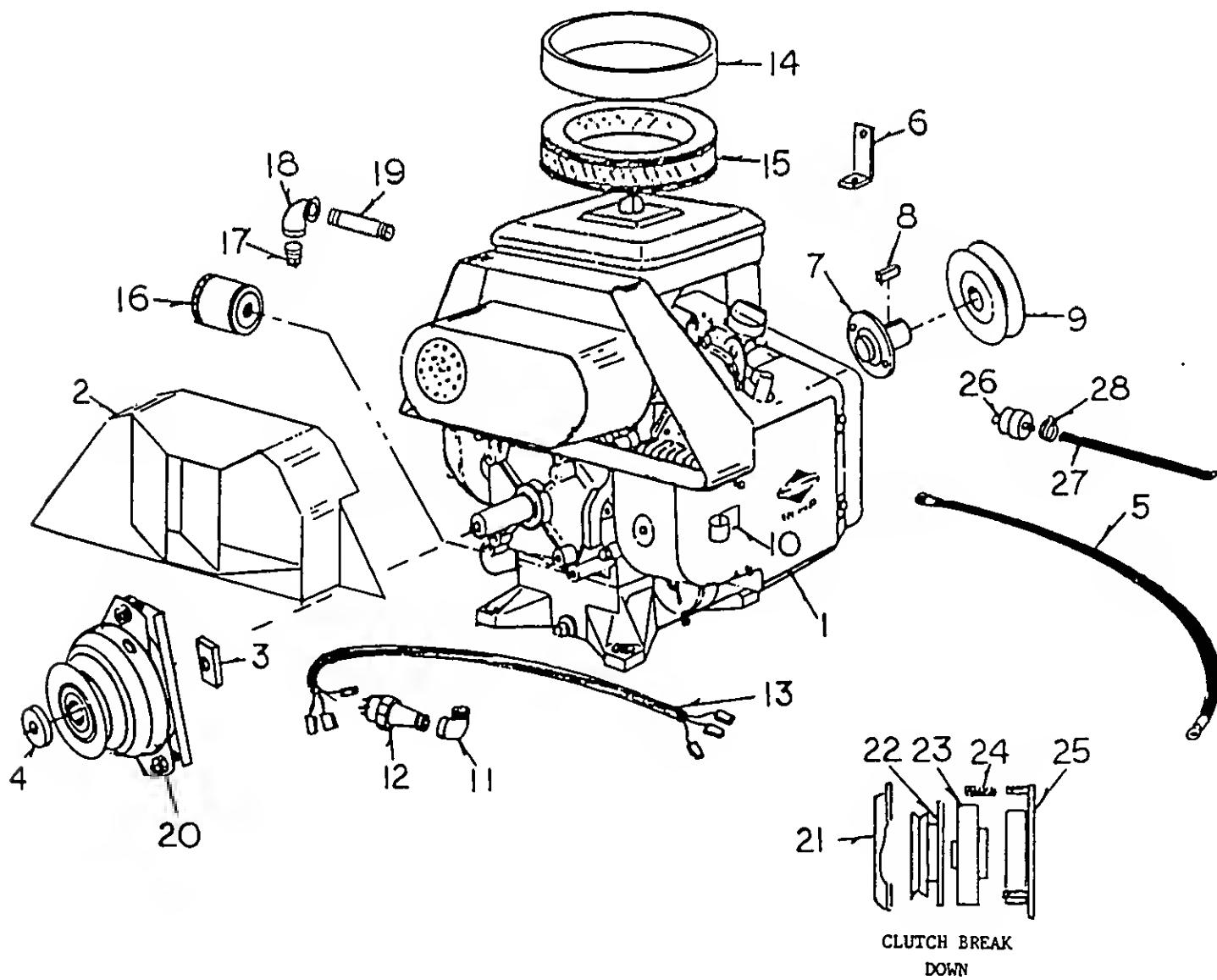
SPECIFICATIONS

Tractor Model	FR1800 Before Serial No. 04-027-012814	FR1800 After Serial No. 04-027-012813	FR2000C
Engine Make	Briggs & Stratton		Kohler
Type, 4 Cycle		2 Cyl Gas	
Horsepower	18	18	20
Displacement	42.8 Cu. In. 694 cc		47 Cu. In. 770 cc
Maximum RPM		3450	
Starting System		12 Volt Key and Solenoid	
Fuel Tank Capacity		5 Gallon	
Battery		12 Volt 235 CCA Size U1 L9	
Transmission	Eaton 720	Sundstrand BDU-10L	Eaton 1120
Final Drive	Eaton 730	Agri-Fab ZT	Eaton 2000
Steering		Hand Lever Control Individual Wheel	
Brake		Dynamic Braking Through Drive	
Parking Brake	Disk	Band	Disk
Clutch		Electric	
Attachment Drive	1 - B Belt		2 - A Belt
MPH Forward & Reverse	0-7 MPH		0-7.5 MPH
Turning Radius		Zero	
Tire Size, Drive	18 x 9.50-8 42" Deck 18 x 6.50-8		20 x 10.00-10 42" Deck 20 x 8.00-10
Tire Size, Tail		16 x 6.50-8	
Seat		Vinyl Adjustable with Optional Arm Rests	
Wheel Base	42"		44"
Height, Tractor	45"		46"
Width, Tractor	49"	51"	50"
Length, Tractor		57"	
Weight, Tractor (Shipping)	660 Lbs.	655 Lbs.	876 Lbs.
Available Deck Widths		42", 52", 62"	
Standard Features	Manual Deck Lift Optional Electric		Hydraulic Deck Lift
		Tilt Back Deck	
		Interlock Safety System	
		Hour and Amp Meter	
		Dual Headlights	
		45 lb. Rear Frame Weight	

BRIGGS & STRATTON ENGINE PARTS

Item	Order No.	Description	Qty.
1		Briggs & Stratton Twin 18 HP	1
2	111-0001	Air Duct	1
3	113-0010	Clutch Stop	2
4	900-5575	Clutch Retainer Washer	1
5	900-2010	Starter Cable	1
6	111-0034	Wire Standoff	2
7	100-0013	Stub Shaft	1
8	100-C014	Key Stock, 1/4"	1
9	900-2503	Pulley	1
10	100-0021	Starter Cable Retainer	1
11	900-5020	Street Elbow, 1/8"	1
12	900-5017	Oil Sending Unit	1
13	900-2067	Wire Harness (Oil Sending Unit)	1
14	900-5008	Pre Cleaner	1

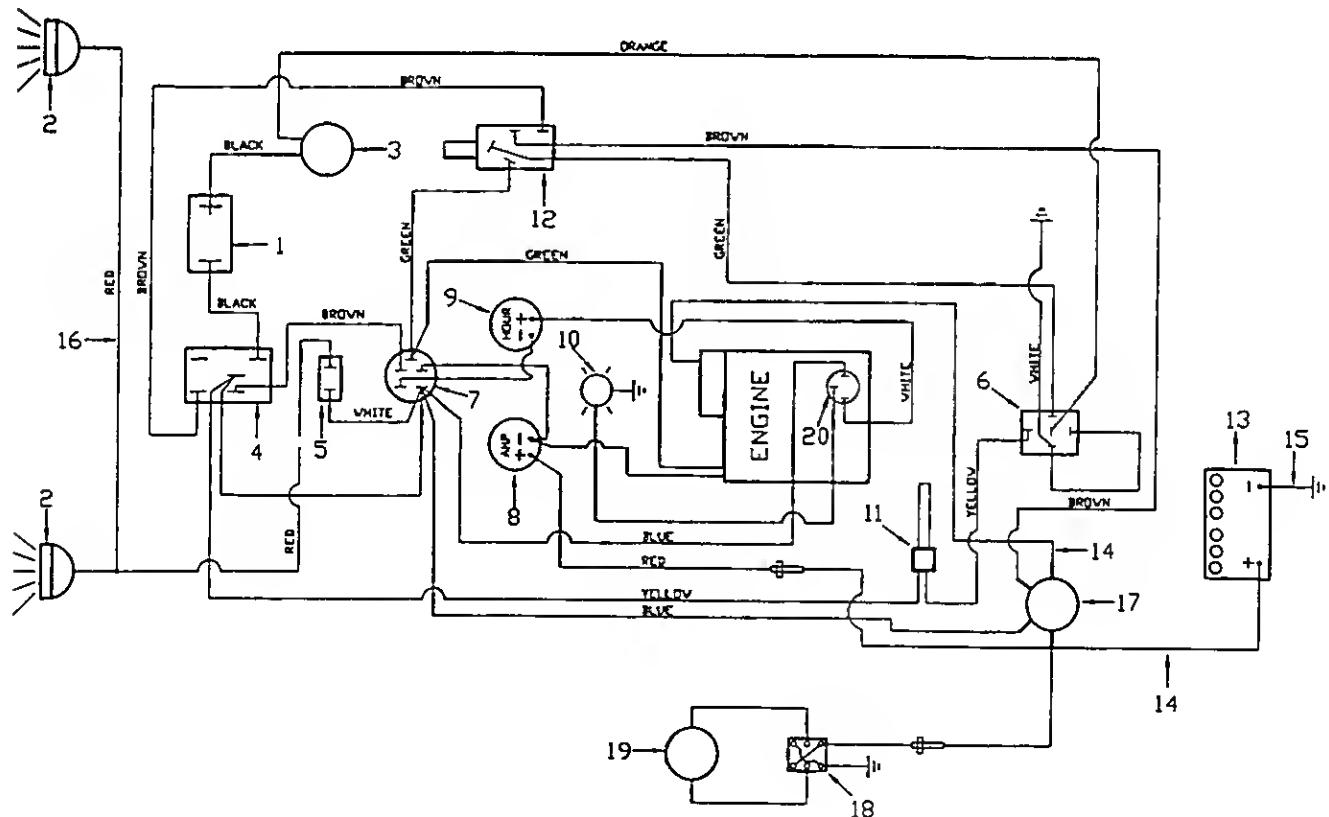
Item	Order No.	Description	Qty.
15	900-5005	Air Cleaner Cartridge	1
16	900-5022	Oil Filter	1
17	900-8024	Plug, 3/8"	1
18	900-5720	Elbow, 3/8"	1
19	900-5721	Nipple, 3/8"	1
20	900-5581	Clutch (Complete)	1
21	900-5582	Clutch Brake	1
22	900-5583	Clutch Armature	1
23	900-5584	Clutch Rotor	1
24	900-5586	Spring & Nut Set (3 Ea.)	1
25	900-5585	Clutch Coil	1
26	900-5514	Fuel Filter	1
27	900-5515	Fuel Line	1
28	900-5525	Fuel Line Clamp	4



WIRING DIAGRAM

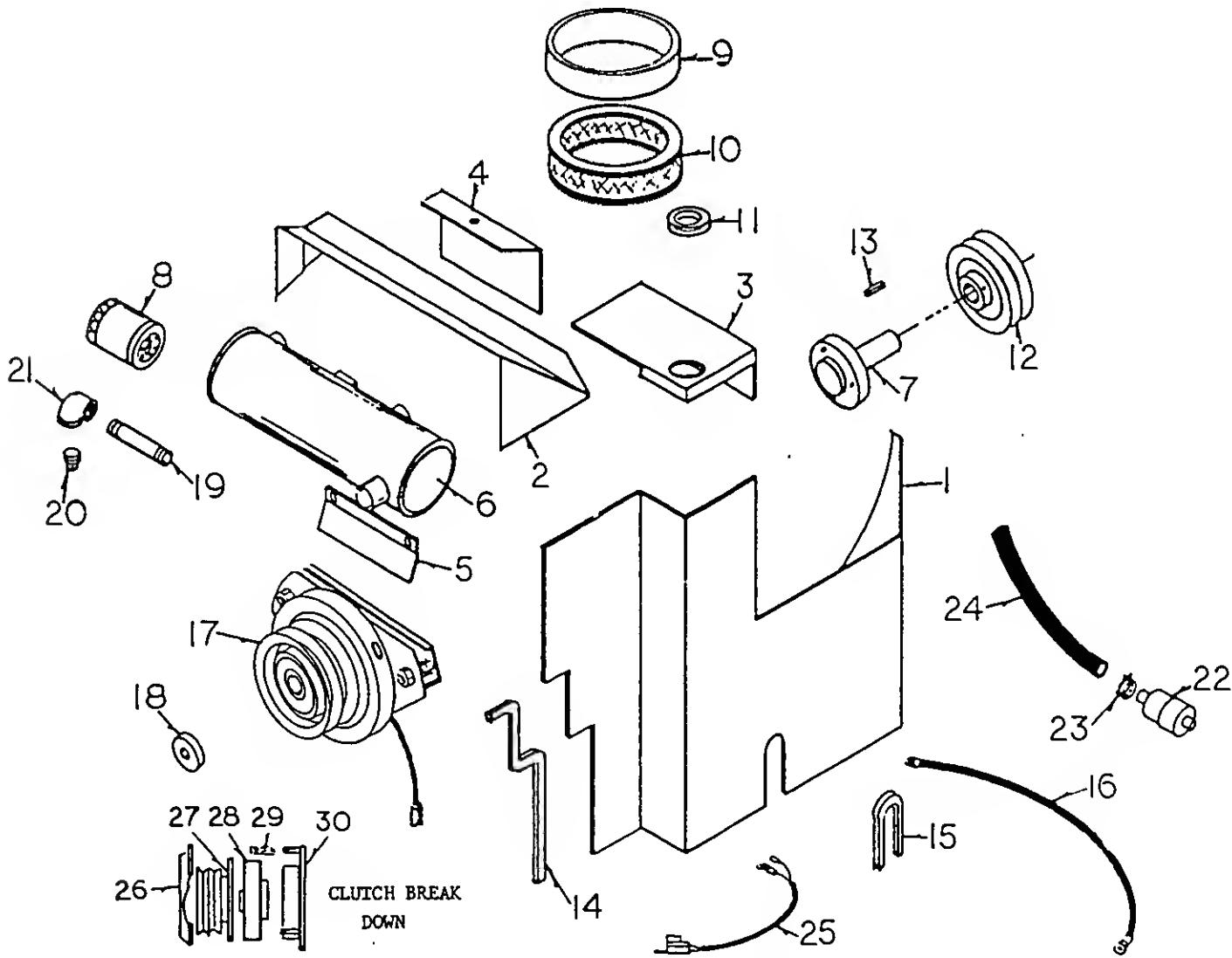
(Briggs & Stratton Engine)

Order Item No.	Description	Qty.	Order Item No.	Description	Qty.
1 900-2044	10 Amp Circuit Breaker	1	9 900-2023	Hour Meter	1
2 900-2014	Headlight Assembly	2	10 900-2041	Oil Light	1
900-2024	Lens	-	11 900-2001	Seat Switch	1
900-2025	Bulb	-	12 900-2029	Safety Switch	1
900-2060	Lamp	-	13 900-2060	Battery	1
900-2068	Headlight Gasket	-	14 900-2010	Starter Wire	2
3 900-5581	Electric Clutch Assembly	1	15 900-2009	Ground Wire	1
4 900-2028	PTO Clutch Switch	1	16 900-2032	Light to Switch Wire	1
5 900-2027	Light Switch	1	17 900-2005	Solenoid	1
6 900-2037	Relay	1	18 900-2020	3 Position Deck Lift Switch	-
7 900-2003	Ignition Switch	1	19 900-2033	Electric Lift Actuator	-
8 900-2002	Amp Gauge	1	20 900-5017	Oil Sending Unit	1
			900-2035	Wiring Harness	1



ONAN ENGINE PARTS

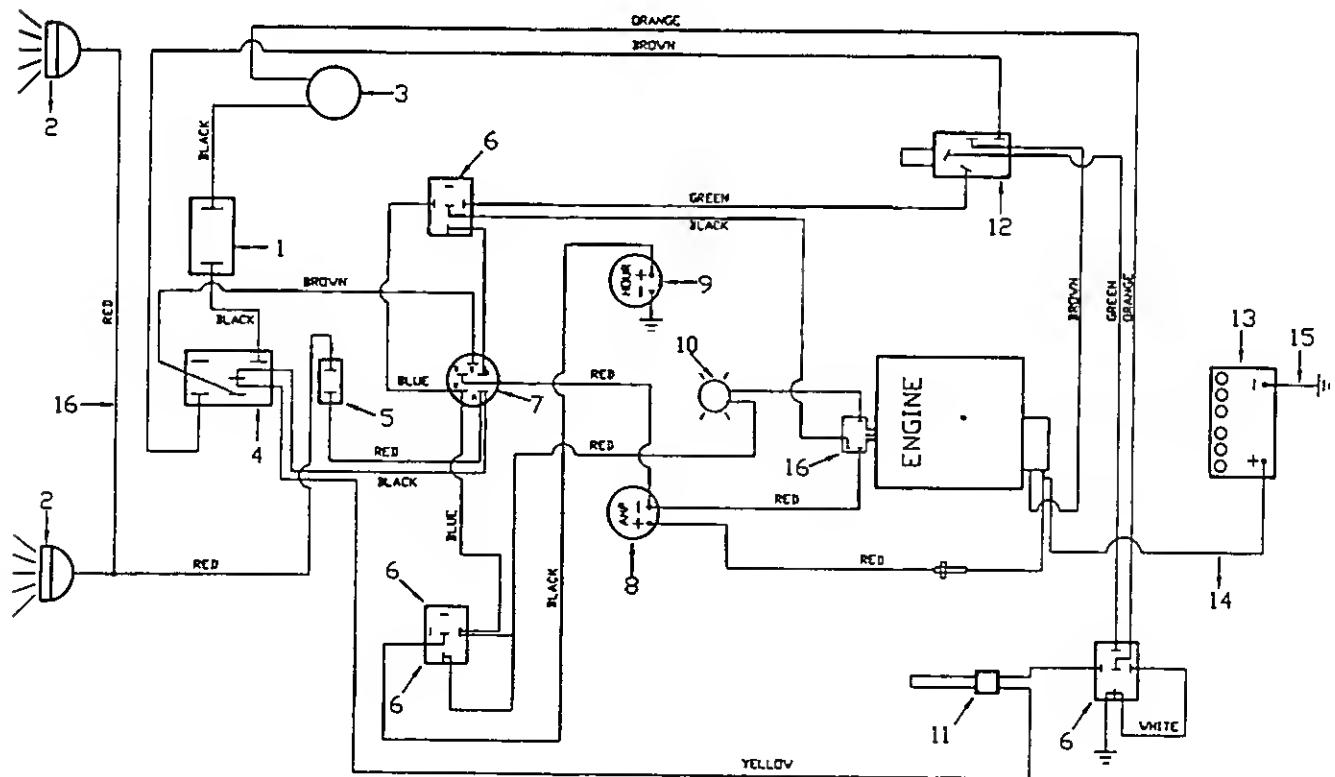
Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	112-0018	Heat Shield, Part A	1	16	900-2011	Starter Wire	1
2	112-0019	Heat Shield, Part B	1	17	900-5716	Electric Clutch (Complete)	1
3	112-0020	Heat Shield, Part C	1	18	900-5575	Clutch Retainer Washer	1
4	112-0021	Heat Shield, Part D	1	19	900-5721	Pipe Nipple, 3/8"	1
5	112-0017	Clutch Stop	1	20	900-8024	Pipe Plug, 3/8"	1
6	900-5023	Muffler (Onan)	1	21	900-5720	Pipe Elbow, 3/8"	1
7	900-5024	Engine Shaft (Onan)	1	22	900-5514	Fuel Filter	2
8	900-5025	Oil Filter (Onan)	1	23	900-5525	Fuel Line Clamp	4
9	900-5026	Filter Element (Onan)	1	24	900-5770	Fuel Line, 38"	1
10	900-5027	Filter Cartridge (Onan)	1	25	900-2071	Starter Harness	1
11	900-5728	Grommet	1	26	900-5582	Clutch Brake	-
12	900-2502	Pulley	1	27	900-5747	Clutch Armature	-
13	100-0014	Key Stock, 1/4" x 1"	1	28	900-5772	Clutch Rotor	-
14	900-5742	Trim, 10"	1	29	900-5586	Clutch Brake Spring (Set of 3)	-
15	900-5742	Trim, 7"	1	30	900-5773	Clutch Coil	-



WIRING DIAGRAM

(Onan Engine)

Order Item No.	Description	Qty.	Order Item No.	Description	Qty.
1 900-2044	10 Amp Circuit Breaker	1	7 900-2065	Ignition Switch (Onan)	1
2 900-2014	Headlight Assembly	2	8 900-2002	Amp Gauge	1
900-2024	Lens	-	9 900-2023	Hour Meter	1
900-2025	Bulb	-	10 900-2041	Oil Light	1
900-2026	Lamp	-	11 900-2001	Seat Switch	1
900-2068	Headlight Gasket	-	12 900-2029	Safety Switch	1
3 900-5716	Electric Clutch Assembly	1	13 900-2060	Battery	1
4 900-2028	PTO Clutch Switch	1	14 900-2011	Starter Wire	2
5 900-2027	Light Switch	1	15 900-2009	Ground Wire	1
6 900-2037	Relay	3	900-2066	Wiring Harness (Onan)	1

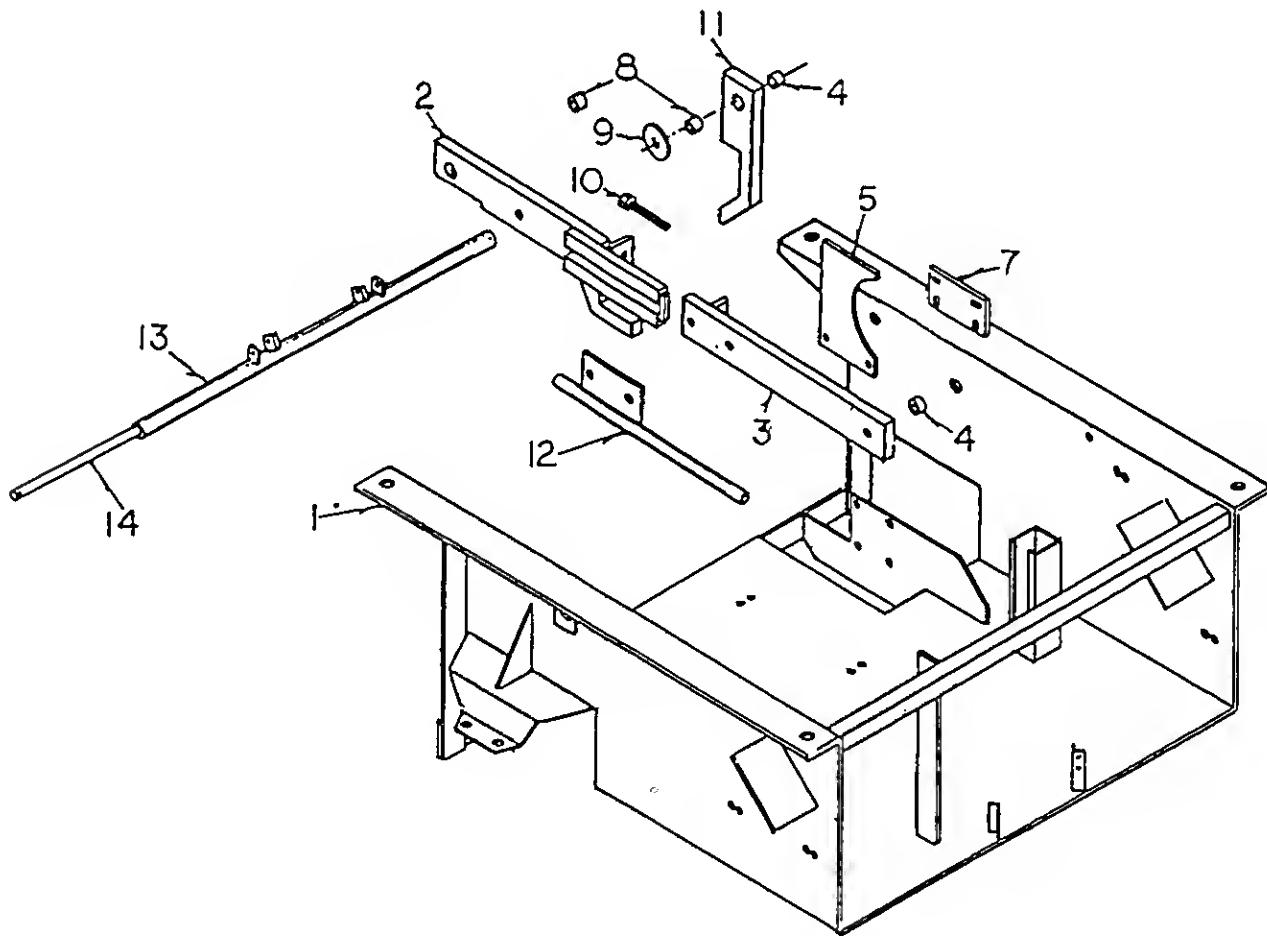


BASE ASSEMBLY

FR1800

(Serial Numbers Prior to 41-027-012814)

Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	113-0000	Base	1	8	300-0013	Bushing, Long	2
2	300-0023RH	Deck Lift Arm, Front RH	1	9	200-0015	Washer	1
	300-0023LH	Deck Lift Arm, Front LH	1	10	900-6088	Deck Belt Adjustment Bolt	2
3	301-0024	Deck Lift Arm, Back	2	11	111-0023	Forward Nose Down Lock	1
4	300-0013S	Bushing, Short	2	12	300-0041	Wire Tube	1
5	113-0007	Belt Retainer	1	13	300-0014	Cross Bar	1
7	112-0008	Belt Retainer Mount	1	14	300-0022	Cross Bar Pin	1

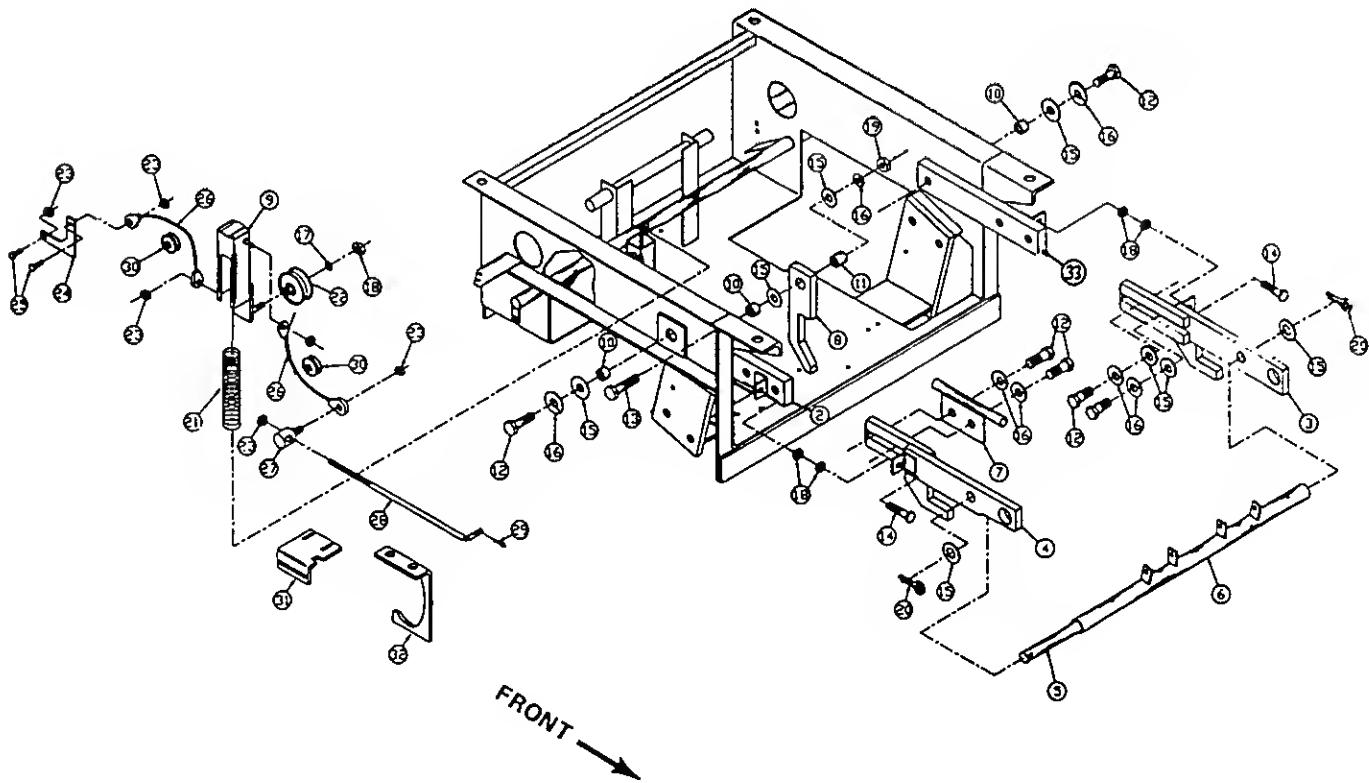


AGRI-FAB SUNDSTRAND BASE ASSEMBLY

FR-1800

(Serial Numbers 41-027-012814 & Later)

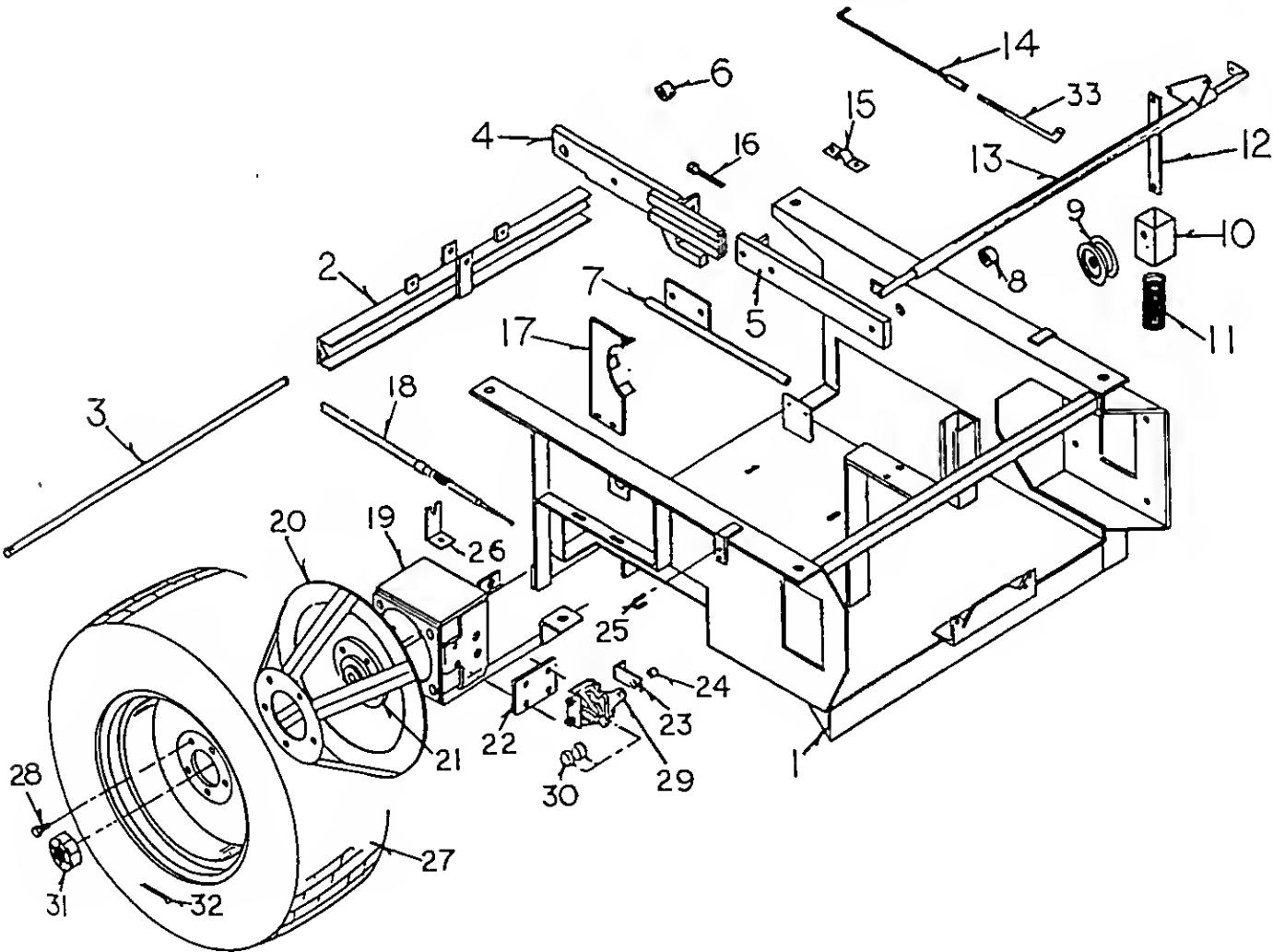
Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	114-0000	Base, SA	1	17	900-6067	Lockwasher, 3/8"	1
2	301-0024	Deck Arm	1	18	900-6075	Hex Nut, 3/8-16	5
3	300-0023LH	Deck Arm, Front, LH	1	19	900-6125	Hex Nut, 1/2-13	1
4	300-0023RH	Deck Arm, Front, RH	1	20	900-6176	Cotter Pin, 1/8" x 1"	2
5	300-0022	Cross Bar Pin	1	21	900-5580	Trans. Belt Tightener Spring	1
6	300-0014	Cross Bar	1	22	900-2553	Idler Pulley, 2 1/4" OD	1
7	300-0041	Wire Tube	1	23	900-6027	Elastic Stop Nut, 1/4-20	6
8	111-0023	Forward Nose Down Lock	1	24	114-0014	L Brake Linkage	1
9	114-0003	Drive Idler Tube	1	25	900-6031	Hex Bolt, 1/4-20 x 1", GRS	2
10	300-0013S	Deck Lift Arm Bushing, Short	3	26	900-5824	Clutch Brake Cable	2
11	300-0013	Deck Lift Arm Bushing	1	27	111-0014	Caliper Rod Collar	1
12	900-6129	Hex Bolt, 1/2-13 x 1 1/4", GRS	6	28	111-0007	Caliper Rod	1
13	900-6131	Hex Bolt, 1/2-13 x 2 1/4", GRS	1	29	900-6175	Cotter Pin, 3/32" x 1"	1
14	900-6088	Hex Tap Bolt, 3/8-16 x 3", GRS	2	30	900-2554	Cable Pulley, 1 1/2" OD	2
15	900-6128	Flatwasher, 1/2"	8	31	114-0010	Engine Belt Retainer Bracket	1
16	900-6127	Lockwasher, 1/2"	7	32	114-0011	Engine Belt Retainer	1
				33	301-0024LH	Deck Arm, LH	1



BASE ASSEMBLY

FR2000C

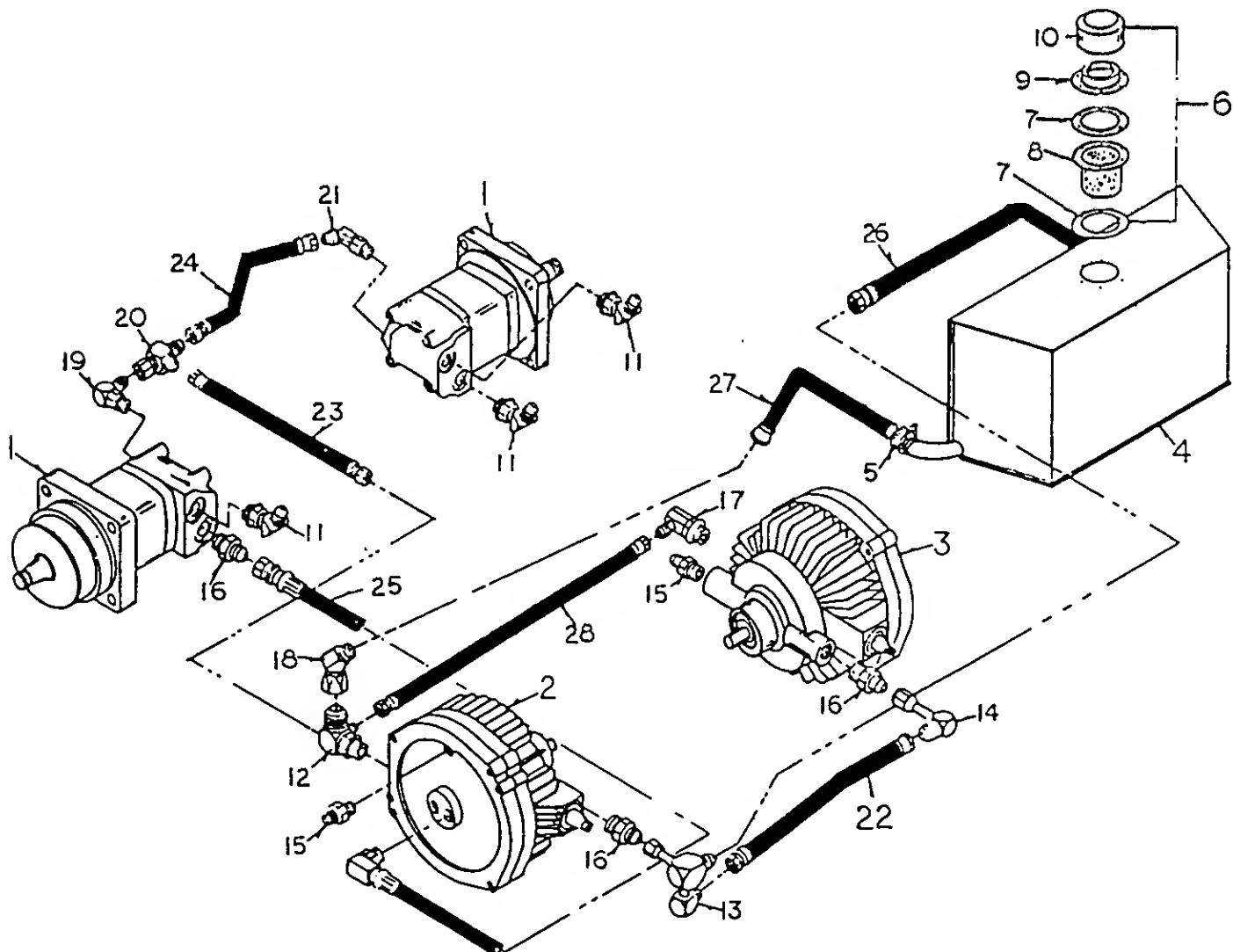
Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	112-0000	Base	1	20	140-0047	Brake Disc	2
2	112-0016	Lift Bar	1	21	900-4028	5 Bolt Hub	2
3	300-0022	Cross Bar Pin	1	22	112-0002	Brake Caliper Mount	2
4	300-0023RH	Deck Lift Arm, Front Adjustable	1	23	200-0013	Cable End	4
	300-0023LH	Deck Lift Arm, Front Adjustable	1	24	200-0014	Bushing	4
5	330-0024	Deck Lift Arm, Back	2	25	900-5503	Clamp	2
6	300-0013	Bushing, Long	2	26	112-0005	Cable Dead Head	2
7	300-0041	Wire Tube	1	27	900-4037	Tire Assembly, 20 x B.00-10	2
B	300-0013S	Bushing, Short	2	900-4043	Tire, 20 x 8.00-10	-	
9	900-2541	Idler Pulley	1	900-4044	Rim	-	
10	111-0019	Spring Loaded Idler Mount	1	27	900-4039	Tire Assembly, 20 x 10.00-10	2
11	900-5580	Spring	1	900-4045	Tire, 20 x 10.00-10	-	
12	112-0014	Pivot Bar Linkage	1	900-4046	Rim	-	
13	112-0013	Brake Clutch Rod	1	2B	900-6105	Lug Bolt	10
14	113-0014	Brake Rod, Adjustable	1	29	900-5691	Brake Caliper, LH (Shown)	1
15	111-0004	Cross Rod Bearing	2	30	900-5690	Brake Caliper, RH	1
16	900-60BB	Deck Arm Adjusting Bolt	2	31	900-5567	Brake Pucks	-
17	112-0015	Belts Retainer	1	32	900-8126	Hub Nut	2
18	900-5718	Brake Cables	2	33	900-6177	Cotter Key	2
19	112-0001	Axle	1	33	111-0007	Caliper Rod	1



WHEEL MOTOR & PUMP ASSEMBLY

FR-2000C

Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	900-8065	Wheel Motor	2	18	900-8093	Male Tube, 45° Female Swivel Adapter	1
2	900-8064	Pump, LH	1	19	900-8015	Male Tube, 90° Male O-ring Adapter	1
3	900-8063	Pump, RH	1	20	900-8096	Male Tube, Female Swivel Tee	1
4	900-8060	Hydraulic Oil Tank	1	21	900-8114	Male Tube, 45° Female Swivel Adapter	1
5	900-5629	Hose Clamp	2	22	900-8109	Hose, 1/2" ID x 18" Long, Easy Couple	1
6	900-8046	Hydraulic Fill Cap Assembly	1	23	900-8107	Hose, 1/4" ID x 14" Long, Easy Couple	1
7	900-8043	Gasket	-	24	900-8108	Hose, 1/4" ID x 20" Long, Easy Couple	1
8	900-8042	Strainer	-	25	900-8100	Hose, 1/2" ID x 36 1/2" Long	4
9	900-8044	Fill Neck	-	26	900-8112	Hose, 3/4" ID x 22" Long, Easy Couple	1
10	900-8045	Breather Cap	-	27	900-8111	Hose, 3/4" ID x 18" Long, Easy Couple	1
11	900-8016	Male Tube, 45° Male O-ring Adapter	3	28	900-8110	Hose, 1/2" ID x 20" Long, Easy Couple	1
12	900-8092	Special Cross	1				
13	900-8091	Special Adapter	1				
14	900-8004	Male Tube, 90° Female Swivel Adapter	1				
15	900-8094	Male Tube, Male O-ring Adapter	4				
16	900-8097	Male Tube, Male O-ring Adapter	3				
17	900-8075	Male Tube, 90° Male O-ring Adapter	1				

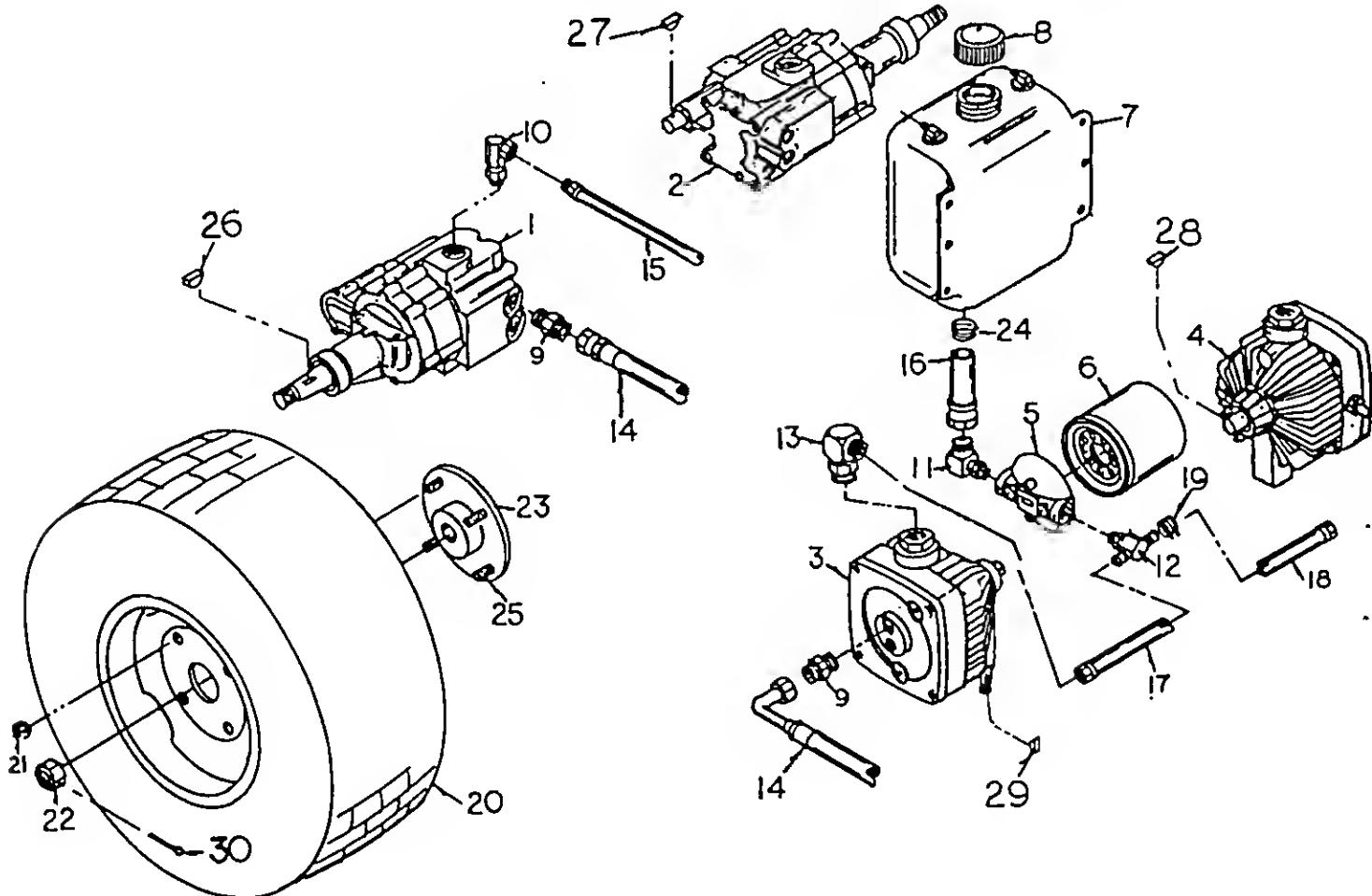


WHEEL MOTOR & PUMP ASSEMBLY

FR1800

(Serial Numbers Prior to 41-027-012814)

Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	900-8069	Wheel Motor, LH	1	18	900-8080	Hose, 1/2" I.O x 12" Long, Easy Couple	1
2	900-8068	Wheel Motor, RH	1	19	900-5729	Hose Clamp, 1/2"	2
3	900-8067	Model 7 Pump, LH	1	20	900-4013	Wheel Ass'y., 18 x 9.50-8	2
4	900-8066	Model 7 Pump, RH	1	900-4042	Tire, 18 x 9.50-8	-	
5	900-8072	Housing, Oil Filter	1	900-4008	Rim, 8" x 7"	-	
6	900-8073	Element, Oil Filter	1	20	900-4038	Wheel Ass'y., 18 x 6.50-8 (Use With 42" Deck)	2
7	900-8058	3 Qt. Oil Tank	1	900-4041	Tire, 18 x 6.50-8	-	
8	900-8059	Cap, Oil Tank	1	900-4040	Rim, 8 x 5 1/2"	-	
9	900-8005	Male Tube, Male O-ring Adp.	8	21	900-6138	Lug Nut, 1/2-20	8
10	900-8074	Male O-ring, 90° Female Pipe Swivel Adp.	2	22	900-8125	Nut, Wheel Motor	2
11	900-8076	Male O-ring, 90° Male Tube Adp.	1	23	900-4036	4-Bolt Wheel Hub	2
12	900-8077	Male O-ring, 1/2" Hose Barb Tee	1	24	900-5733	Hose Clamp, 5/8"	1
13	900-8075	Male O-ring, 90° Male Tube Adp.	2	25	900-6137	Lug Bolt, 1/2-20 x 1 1/4"	8
14	900-8078	Hose, 1/2" I.O x 28" Long	4	26	900-8124	Woodruff Key, 1/4" x 1"	2
15	900-8071	Hose, 1/4" I.O x 24" Long, Easy Couple	2	27	900-8090	Woodruff Key, 3/16" x 3/4"	2
16	900-8079	Hose, 5/8" I.O x 3 3/4" Long, Easy Couple	1	28	900-4508	Woodruff Key, 1/8" x 1/2"	2
17	900-8081	Hose, 1/2" I.O x 7 3/4" Long, Easy Couple	1	29	900-4524	Woodruff Key, 1/8" x 3/8"	2
				30	900-8122	Cotter Pin, 1/8" x 1 3/4"	2

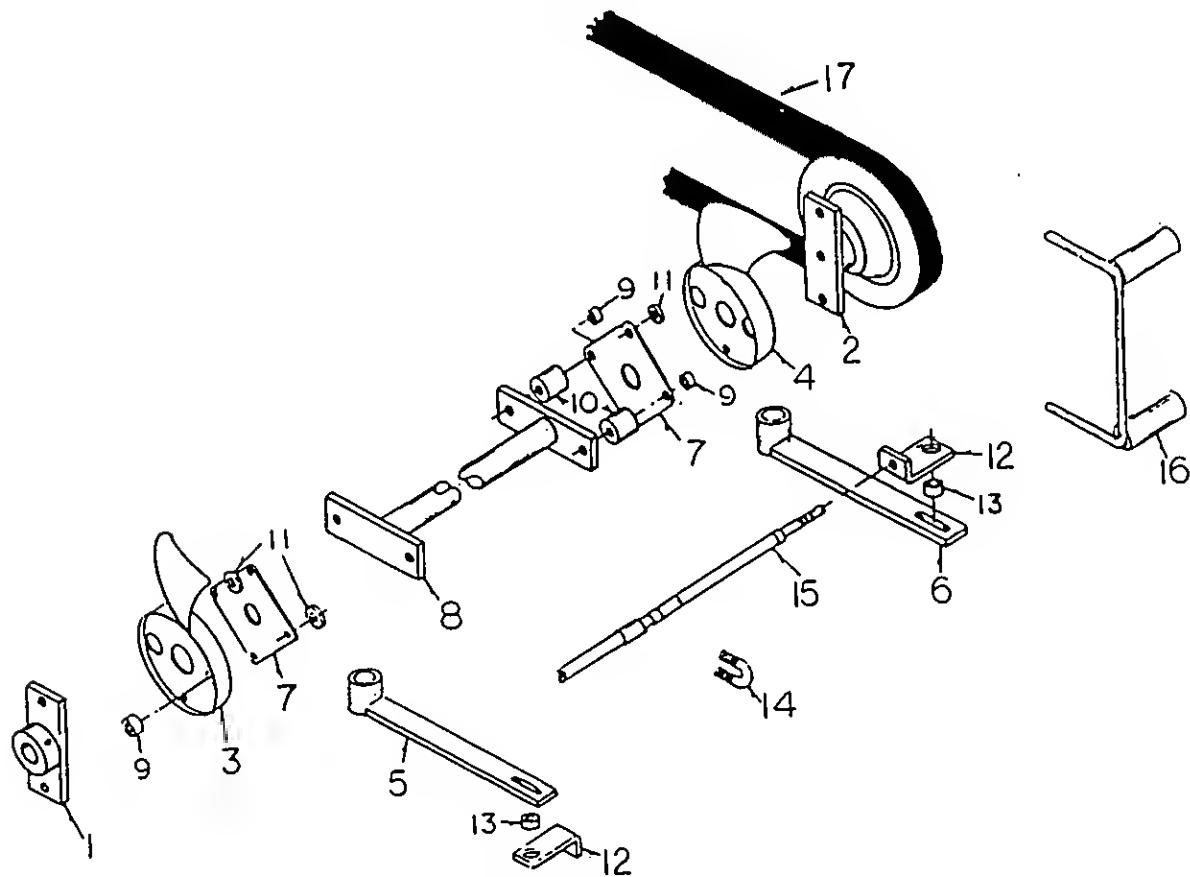


TRANSMISSION DRIVE

(Serial Numbers Prior to 41-027-012814)

33

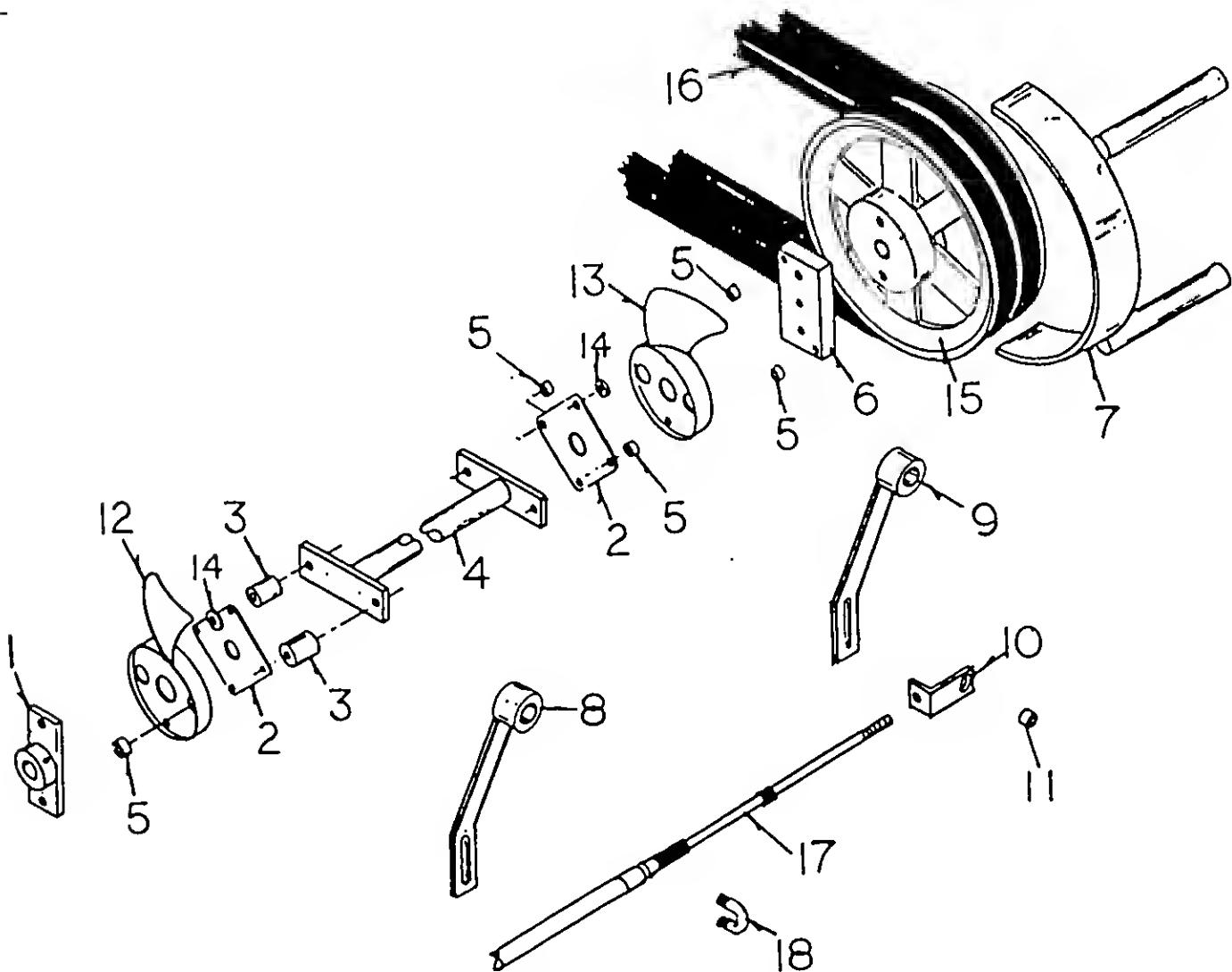
Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	900-4522	Hub w/Orive Plate	1	10	111-0022	Spacer	2
2	900-4521	Pulley w/Orive Plate	1	11	900-6161	Washer, 1/4", 10 Ga.	6
3	900-4527	CCW Fan	1	12	200-0013	Steering Cable End	4
4	900-4526	CW Fan	1	13	200-0014	Bushing, Steering Lever	4
5	900-4506	Transmission Arm, LH	1	14	900-5503	Steering Cable Clamp	4
6	900-4507	Transmission Arm, RH	1	15	900-5502	Steering Cable	2
7	111-0021	Orive Plate	2	16	111-0003	Belt Retainer, Transmission	1
8	113-0002	Transmission Cross Shaft	1	17	900-3011	Belt	1
9	111-0025	Bolt Spacer	4				



TRANSMISSION DRIVE

FR-2000C

Order Item No. Description			Order Item No. Description			
Qty.	Item No.	Description	Qty.	Item No.	Description	
1	112-0012	Hub w/Drive Plate	1	10	140-0023	Steering Cable Ends
2	111-0021	Drive Plate	2	11	200-0014	Steering Cable Ends Bushing
3	111-0022	Spacer	2	12	900-4527	CCW Fan, LH
4	112-0009	Cross Shaft	1	13	900-4526	CW Fan, RH
5	111-0025	Bolt Spacer	6	14	900-6161	Washer, 5/16"
6	112-0007	Cross Bar Block	1	15	900-2542	Pulley
7	112-0006	Transmission Belt Retainer	1	16	900-3022	Belts
8	112-0004	Transmission Arm, LH	1	17	900-5717	Steering Cable
9	112-0003	Transmission Arm, RH	1	18	900-5625	Clamp

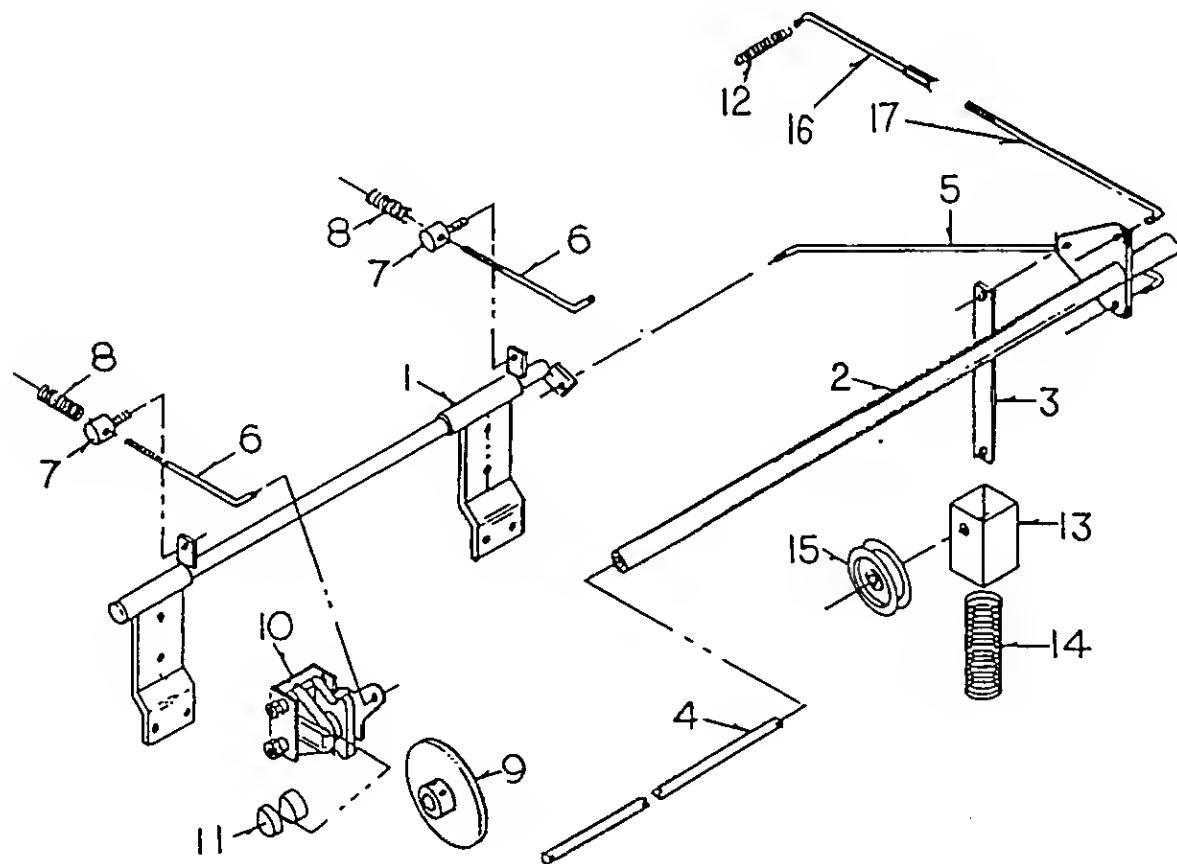


BRAKE ASSEMBLY

FR1800

(Serial Numbers Prior to 41-027-012814)

Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	113-0003	Brake Mount & Cross Rod Ass'y.	1	9	900-4525	Brake Disc	2
2	113-0013	Brake Clutch Cross Rod	1	10	900-5690	Brake Assembly	2
3	113-0012	Cross Rod to Idler Pulley Linkage	1	11	900-5567	Brake Pucks	-
4	300-0022	Cross Bar Pin	1	12	900-5501	Brake Pedal Spring	1
5	113-0006	Cross Rod to Brake Linkage	1	13	111-0019	Spring Loaded Idler Mount	1
6	113-0001	Caliper Rod	2	14	900-5580	Transmission Belt Idler Spring	1
7	111-0014	Caliper Rod Collar	2	15	900-2501	Idler Pulley	1
8	900-5722	Brake Caliper Spring	2	16	113-0014	Brake Rod, Adjustable	1
				17	111-0007	Caliper Rod	1

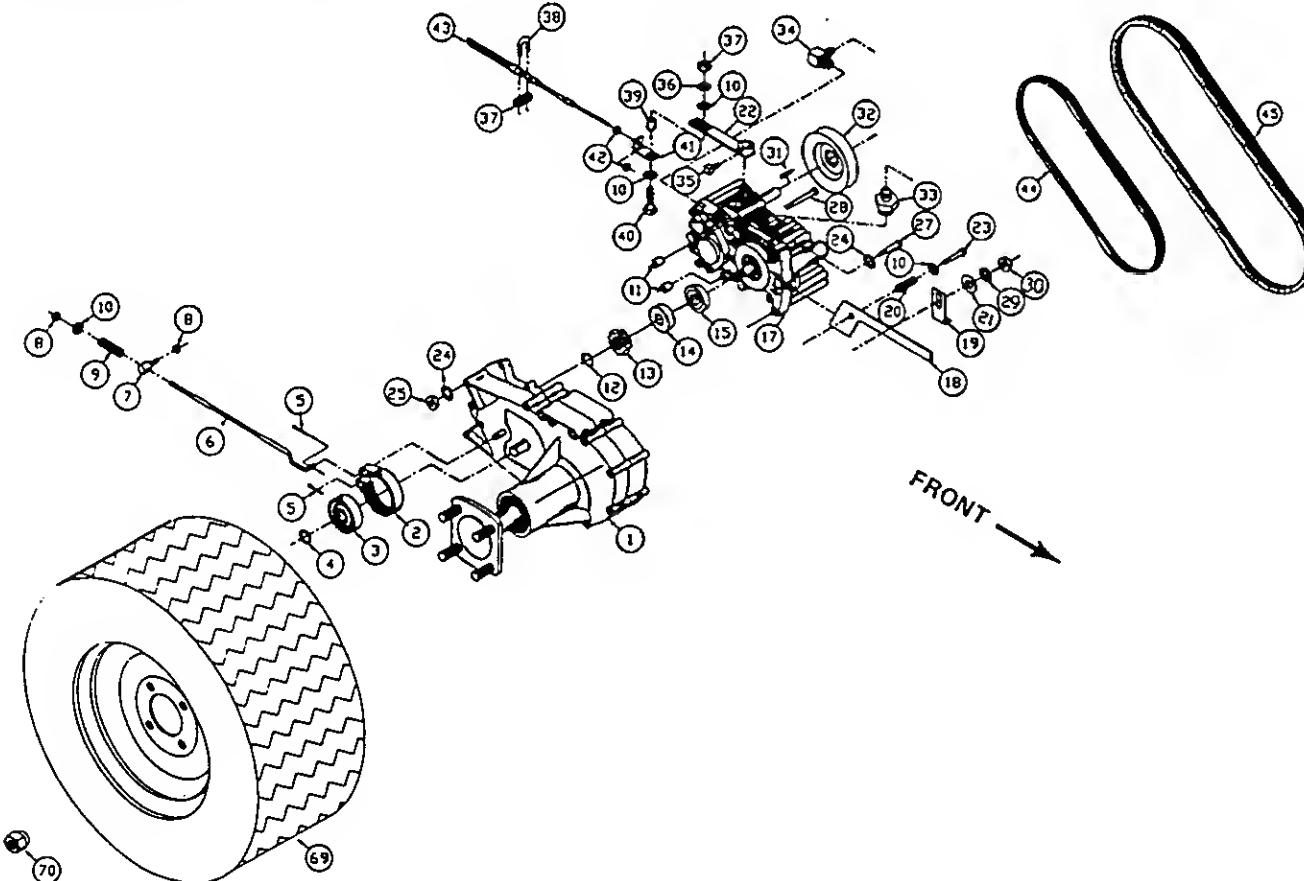


AGRI-FAB SUNDSTRAND DRIVE ASSEMBLY

(Serial Number 41--027-012814 & Later)

Illustration No. 1
Right-Hand Drive Parts

Order			Order				
Item	No.	Description	Qty.	Item	No.	Description	Qty.
1	900-8134	ZT Transmission	1	27	900-6061	Hex Bolt, 5/16-18 x 2", GR5	2
2	900-7050	Brake Band	-	28	900-6073	Hex Bolt, 5/16-18 x 7 1/2", GR5	2
3	900-7051	Brake Drum	-	29	900-5840	Lockwasher, 3/8"	1
4	900-7052	Snap Ring	-	30	900-8164	Hex Nut, 3/8-16	1
5	900-6167	Cotter Pin, 1/8" x 1"	2	31	900-6168	Key, 5 x 5 x 25mm	1
6	114-0004	Brake Linkage Rod	1	32	900-2552	Pulley, 4" OD x 15mm ID	1
7	111-0014	Caliper Rod Collar	1	33	900-8168	Male Tube, Male O-ring Adapter	1
8	900-6027	Elastic Stop Nut, 1/4-20	2	34	900-8116	Male Tube, 90° Male O-ring Adpt.	1
9	900-5722	Spring	1	35	900-6058	Squarehead Setscrew, 5/16-18 x 1/2"	1
10	900-6029	Flatwasher, 1/4"	5	36	900-6058	Lockwasher, 1/4"	1
11	900-7045	Spacer	2	37	900-6028	Hex Nut, 1/4-20	3
12	900-7046	Snap Ring	1	38	900-5503	Steering Cable Clamp	1
13	900-7047	Gear	1	39	200-0014	Steering Cable Bushing	1
14	900-7048	Bearing	1	40	900-6031	Hex Bolt, 1/4-20 x 1", GR5	1
15	900-7049	Spacer	1	41	200-0013	Steering Cable End	1
17	900-8132	Sundstrand Pump, RH	1	42	900-6150	Hex Nut w/Star Washer, 10-32	2
18	114-0005	Transmission Dump Lever	1	43	900-5819	Steering Cable, 3/16" x 58"	1
19	114-0001	Transmission Dump Lever Stop	1	44	900-3027	Pump Drive Belt	1
20	900-6501	Compression Spring, 9/16" OD x 1 3/8"	1	45	900-3010	Belt	1
21	900-6052	Flatwasher, 3/8"	1	69	900-4048	Drive Wheel Assembly	1
22	114-0013	Transmission Arm	1	900-4042	Tire, 18 x 9.50-8	-	
23	900-6019	Dump Valve Bolt	1	900-4040	Rim, 8 x 5 1/2"	-	
24	900-6051	Lockwasher, 5/16"	4	70	900-6138	Lug Nut, 1/2-20	4
25	900-6050	Hex Nut, 5/16-18	2				



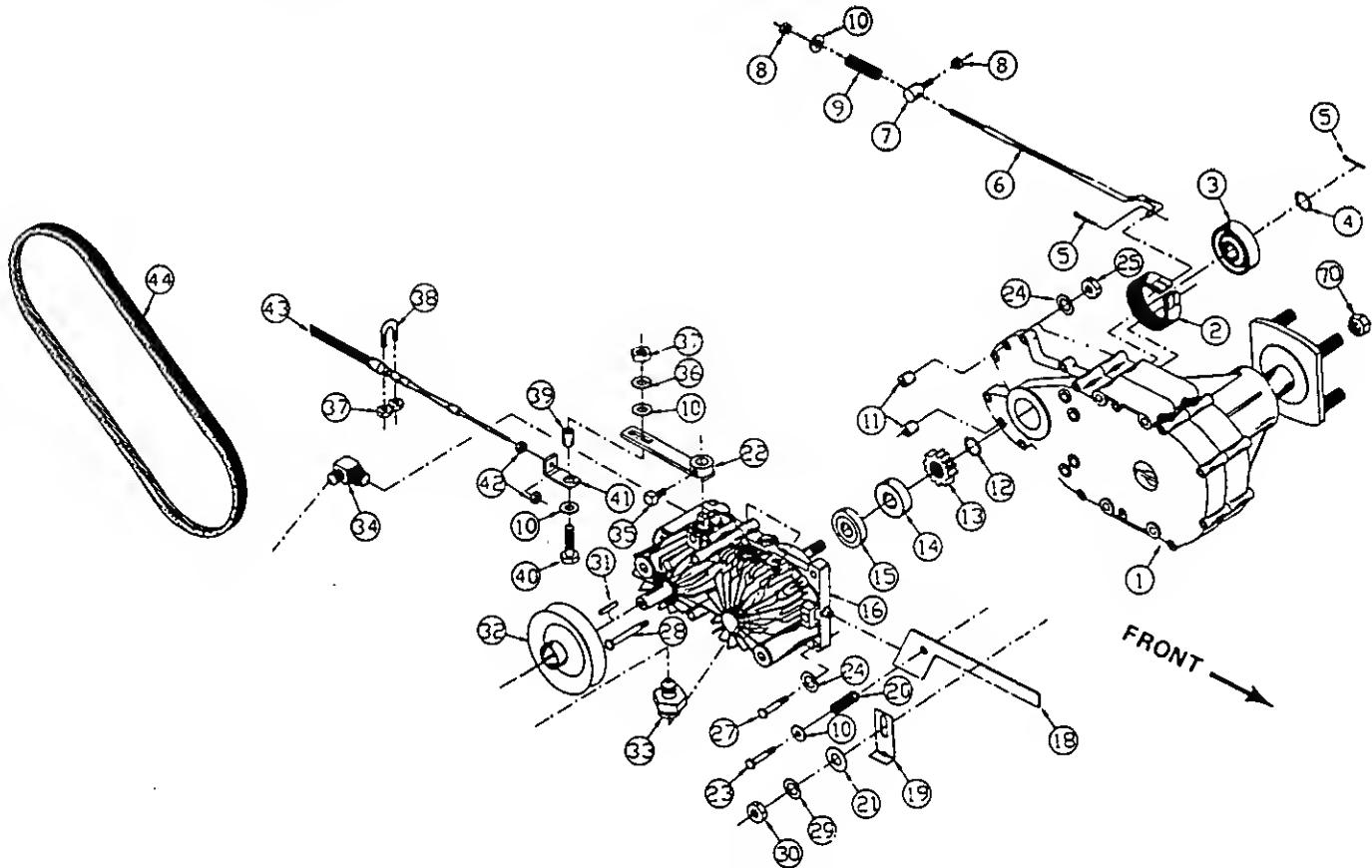
AGRI-FAB SUNDSTRAND DRIVE ASSEMBLY

(Serial Number 41-027-012814 & Later)

Illustration No.

Left-Hand Drive Parts

Item	Order No.	Description	Qty.	Item No.	Description	Qty.
1	900-8134	ZT Transmission	1	25	900-6050	Hex Nut, 5/16-18
2	900-7050	Brake Band	-	27	900-6061	Hex Bolt, 5/16-18 x 2", GRS
3	900-7051	Brake Drum	-	28	900-6073	Hex Bolt, 5/16-18 x 7 1/2", GRS
4	900-7052	Snap Ring	-	29	900-5840	Lockwasher, 3/8"
5	900-6167	Cotter Pin, 1/8" x 1"	2	30	900-8164	Hex Nut, 3/8-16
6	114-0004	Brake Linkage Rod	1	31	900-6168	Key, 5 x 5 x 25mm
7	111-0014	Caliper Rod Collar	1	32	900-2552	Pulley, 4" 00 x 15mm I0
8	900-6027	Elastic Stop Nut, 1/4-20	2	33	900-8168	Male Tube, Male O-ring Adapter
9	900-5722	Spring	1	34	900-8116	Male Tube, 90° Male O-ring Adpt.
10	900-6029	Flatwasher, 1/4"	5	35	900-6058	Squarehead Setscrew, 5/16-18 x 1/2"
11	900-7045	Spacer	2	36	900-6028	Lockwasher, 1/4"
12	900-7046	Snap Ring	1	37	900-6026	Hex Nut, 1/4-20
13	900-7047	Gear	1	38	900-5503	Steering Cable Clamp
14	900-7048	Bearing	1	39	200-0014	Steering Cable Bushing
15	900-7049	Spacer	1	40	900-6031	Hex Bolt, 1/4-20 x 1", GRS
16	900-8133	Sundstrand Pump, LH	1	41	200-0013	Steering Cable End
18	114-0005	Transmission Dump Lever	1	42	900-6150	Hex Nut w/Star Washer, 10-32
19	114-0001	Transmission Dump Lever Stop	1	43	900-5819	Steering Cable, 3/16" x 58"
20	900-6501	Compression Spring, 9/16" OD x 1 3/8"	1	44	900-3027	Pump Drive Belt
21	900-6052	Flatwasher, 3/8"	1	69	900-4048	Drive Wheel Assembly (Not Shown)
22	114-0013	Transmission Arm	1	900-4042	Tire, 18 x 9.50-8	
23	900-6019	Dump Valve Bolt	1	900-4040	Rim, 8 x 5 1/2"	
24	900-6051	Lockwasher, 5/16"	4	70	900-6138	Lug Nut, 1/2-20



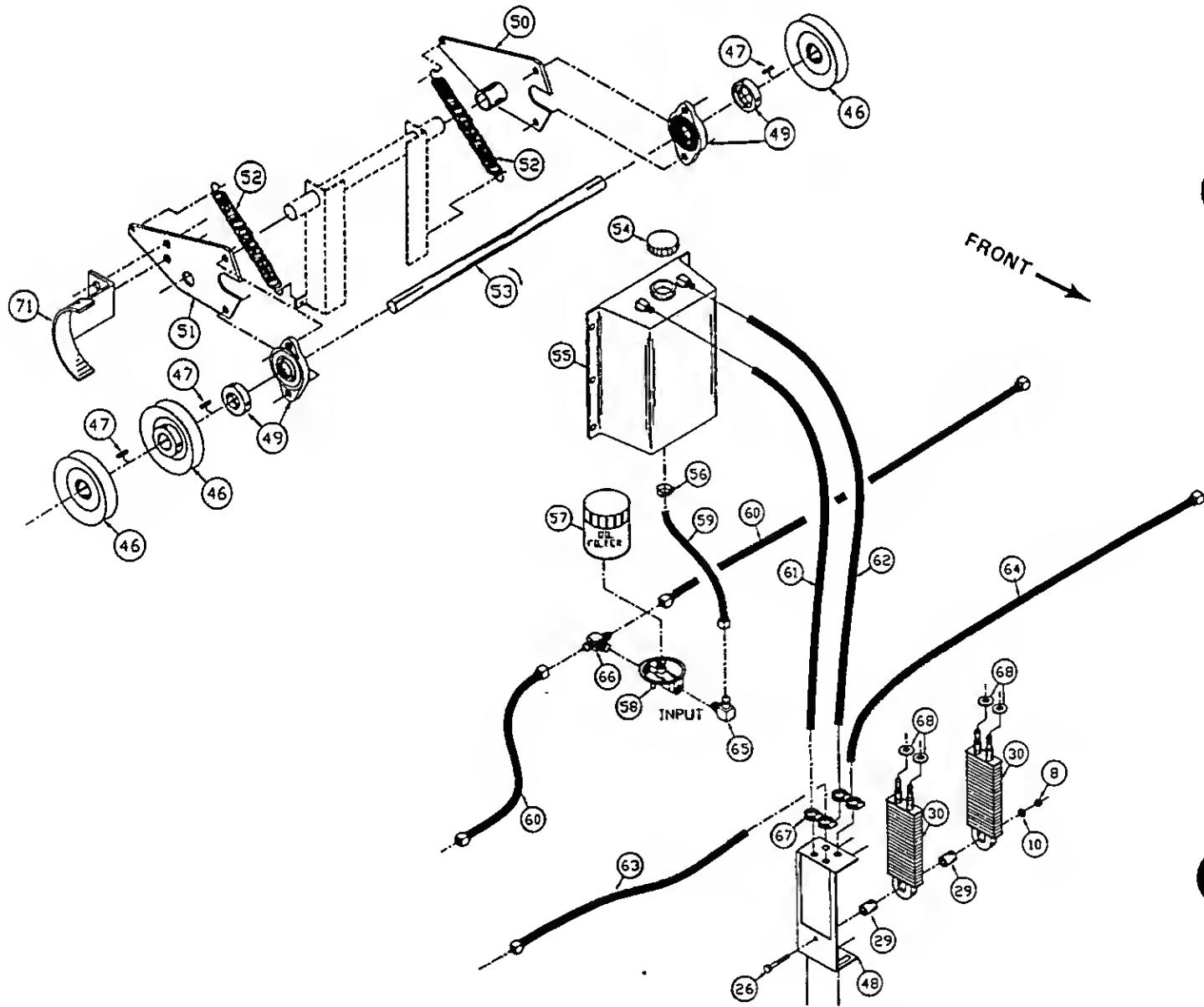
AGRI-FAB SUNDSTRAND DRIVE ASSEMBLY

(Serial Number 41-027-012814 & Later)

Illustration No. 3

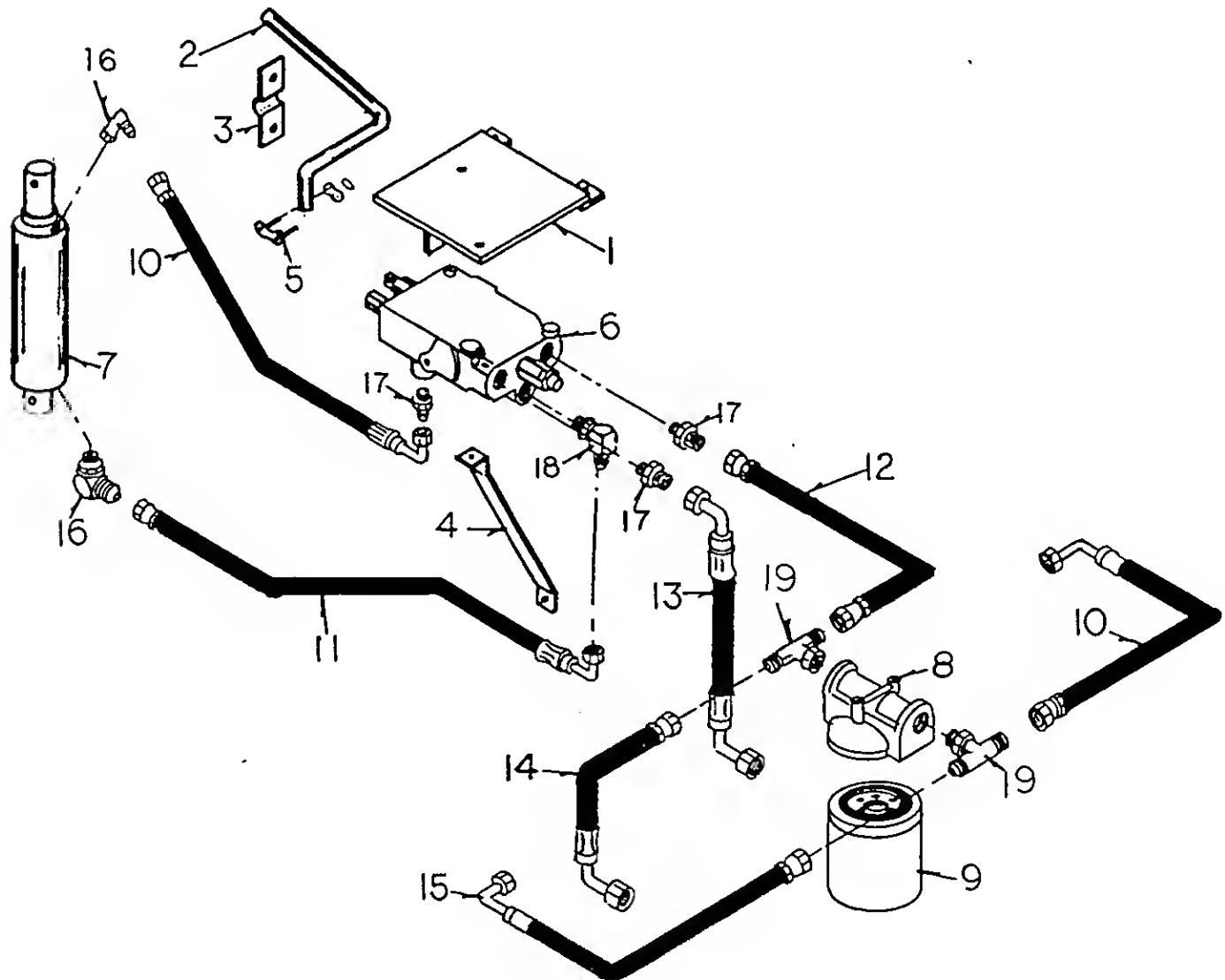
Hydraulic System Parts & Cross Shaft Parts

Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
8	900-6027	Elastic Stop Nut, 1/4-20	1	56	900-5733	Hose Clamp, 5/8"	1
10	900-6029	Flatwasher, 1/4"	1	57	900-8073	Filter Element	1
26	900-6022	Hex Bolt, 1/4-20 x 2 1/4", GR5	1	58	900-8072	Filter Head, #6 Ports	1
29	900-5840	Rubber Bushing	2	59	900-8173	Hose Assembly, 5/8" x 11"	1
30	900-8164	Oil Cooler	2	60	900-8170	Hose Assembly, 3/8" x 13"	2
46	900-2506	Pulley, 4" x 3/4" ID	3	61	900-8169	Hose, 3/8" x 25"	1
47	300-0021	Key, 3/16" x 3/16" x 1"	3	62	900-8174	Hose, 3/8" x 27"	1
48	114-0012	Oil Cooler Mount	1	63	900-8172	Hose Assembly, 3/8" x 38"	1
49	900-3516	Bearing, 2-Bolt Flanged	2	64	900-8171	Hose Assembly, 3/8" x 24"	1
50	114-0006	Cross Shaft Bearing Mount, LH	1	65	900-8076	Male Tube, 90° Male O-ring Adpt.	1
51	114-0007	Cross Shaft Bearing Mount, RH	1	66	900-8095	Male O-ring, Male Tube Tee	1
52	900-6502	Ext. Spring, 1" x 7 1/4", 11 GA	2	67	900-5657	Hose Clamp, 3/8"	4
53	114-0002	Drive Cross Shaft	1	68	900-5829	Grommet, 1/2" I.D. x 1" OD	4
54	900-8059	Oil Tank Cap	1	71	114-0008	Cross Shaft Belt Retainer	1
55	900-8165	Oil Tank, SA	1				



HYDRAULIC LIFT ASSEMBLY

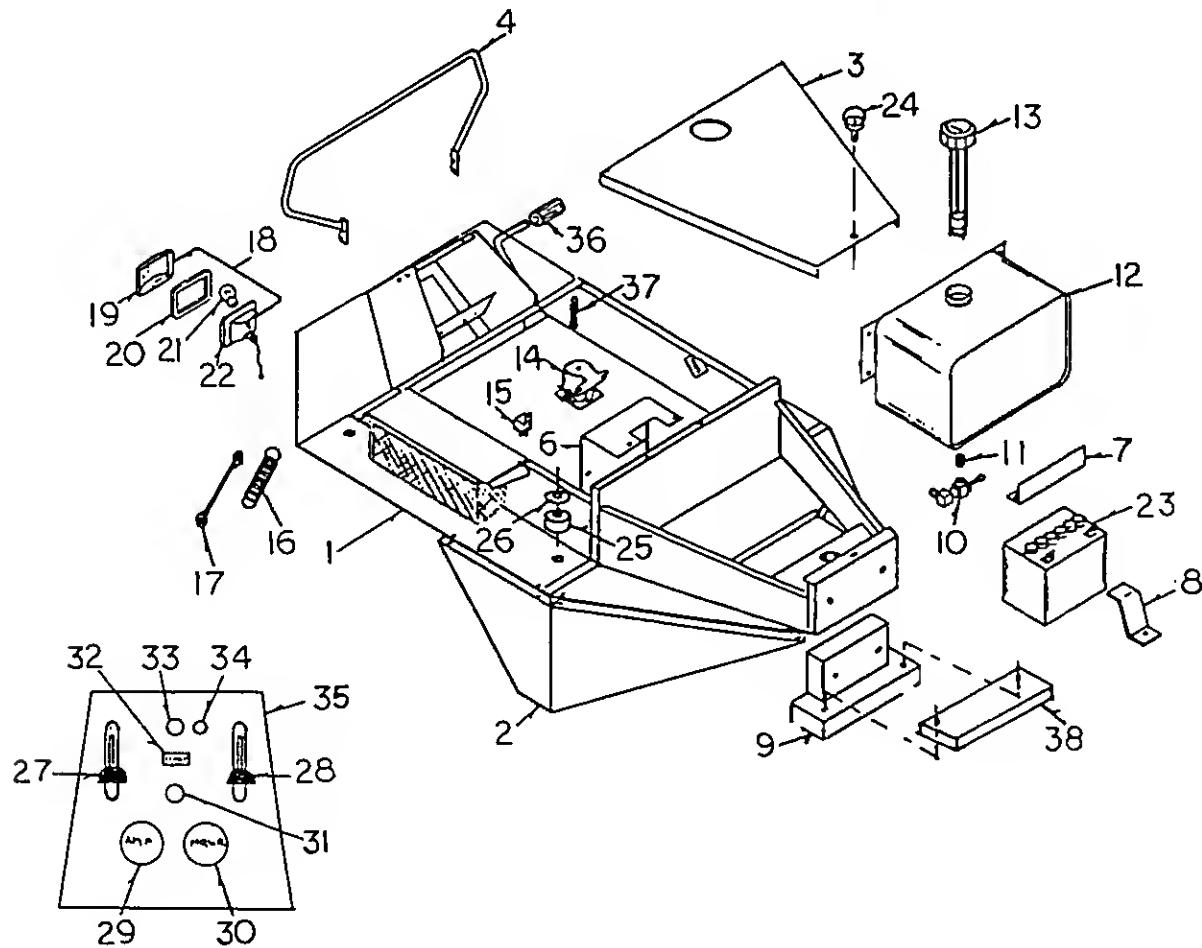
Item	Order No.	Description	Qty.	Order	Description	Qty.
				Item No.		
1	212-0002	Valve Mount	1	12	900-8101	Hose, 3/8" ID x 20" Long
2	212-0003	Valve Lever	1	13	900-8102	Hose, 3/8" ID x 13" Long
3	111-0004	Bearing, Clutch Brake	1	14	900-8105	Hose, 3/8" ID x 11.5" Long
		Cross Rod	1	15	900-8104	Hose, 3/8" ID x 21" Long
4	212-0005	Valve Support	1	16	900-8116	Male O-ring, 90° Male Tube Adp.
5	900-1004	Connecting Link, #50	1	17	900-8094	Male O-ring, Male Tube Adp.
6	900-8000	Valve	1	18	900-8097	Male O-ring, 90° Male Tube Adp.
7	900-8070	Lift Cylinder	1	19	900-8095	Male Tube, Male O-ring Tee
8	900-8072	Housing, Oil Filter	1			
9	900-8073	Element, Oil Filter	1			
10	900-8103	Hose, 3/8" ID x 26" Long	2			
11	900-8106	Hose, 3/8" ID x 31" Long	1			



BODY ASSEMBLY

FR-1800

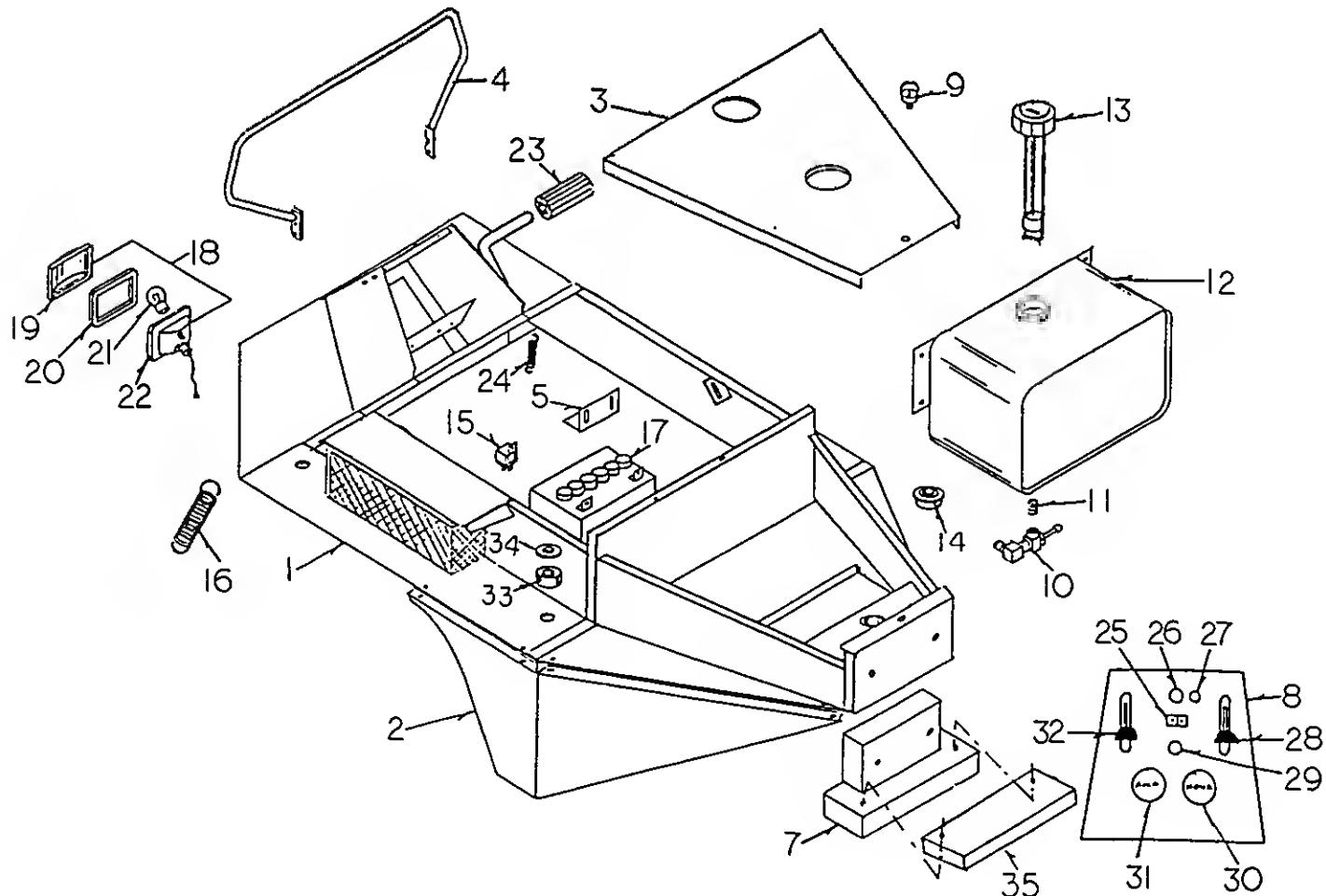
Order				Order			
Item	No.	Description	Qty.	Item	No.	Description	Qty.
1	201-0000	Body	1	20	900-2068	Gasket	4
2	201-0017	Fender, RH	1	21	900-2025	Bulb	2
	201-0016	Fender, LH (Shown)	1	22	900-2026	Lamp	2
3	201-0009	Back Cover	1	23	900-2060	Battery	1
4	200-0007	Guard Rail	1	24	900-5522	Ozus Fastener	1
5	900-3501	Bearing	2	25	900-5509	Rubber Body Mount	8
6	213-0001	Oil Tank Mount	1	26	200-0015	Body Mount Washer	4
7	200-0019	Hold Down	1	27	900-5508	Choke Cable	1
8	200-0021	Battery Post Protector	1	28	900-5605	Throttle Cable	1
9	230-0002	Tail Weight	1	29	900-2002	Amp Meter	1
10	900-5513	Shutoff Valve, Fuel	1	30	900-2023	Hour Meter	1
11	900-5706	Nipple, 1/8"	1	31	900-2003	Ignition Switch	1
12	900-5533	Fuel Tank	1	32	900-2027	Light Switch	1
13	900-5561	Fuel Tank Cap w/Gauge	1	33	900-2028	Clutch Switch	1
14	900-2005	Solenoid	1	34	900-2041	Oil Light	1
15	900-2037	Relay	1	35	201-0006	Dash Board	1
16	900-5516	Deck Spring	2	36	900-5563	Brake Pedal Pad	1
17	900-5518	Deck Lift Cable	2	37	900-5569	Spring	1
18	900-2014	Light Assembly	2	38	230-0010	Tail Weight, 13 lb.	(Opt.)
19	900-2024	Lens	2				



BODY ASSEMBLY

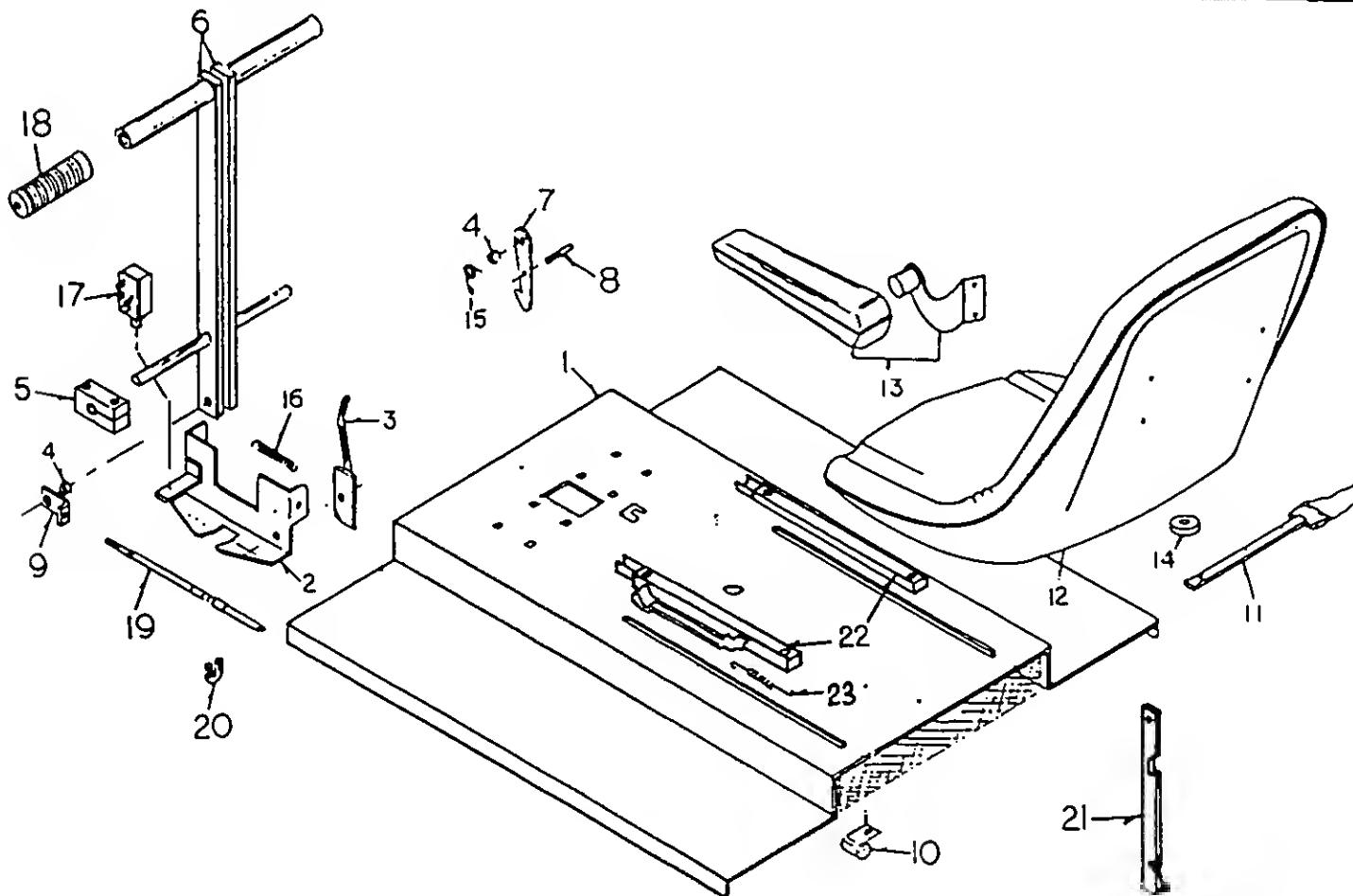
FR-2000C

Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	212-0000	Body	1	18	900-2014	Light Assembly	2
2	201-0012	Fender, LH (Shown)	1	19	900-2024	Lens	2
201-0013		Fender, RH	1	20	900-2068	Gasket	4
3	212-0001	Back Cover	1	21	900-2025	Bulb	2
4	200-0007	Guard Rail	1	22	900-2026	Lamp	2
5	212-0006	Hold Down	1	23	900-5563	Brake Pedal Pad	1
6	212-0004	Top Cylinder Mount	1	24	900-5569	Spring	1
7	230-0002	Tail Weight	1	25	900-2027	Light Switch	1
8	201-0006	Dashboard	1	26	900-2028	Clutch Switch	1
9	900-5522	Dzus Fastener	1	27	900-2041	Oil Light	1
10	900-5513	Shutoff Valve	1	28	900-5605	Throttle Cable	1
11	900-5706	Nipple, 1/8"	1	29	900-2003	Ignition Switch	1
12	900-5533	Fuel Tank	1	30	900-2023	Hour Meter	1
13	900-5561	Fuel Tank Cap w/Gauge	1	31	900-2002	Amp Meter	1
14	900-3501	Bearing	2	32	900-5508	Choke Cable	1
15	900-2037	Relay	3	33	900-5509	Rubber Body Mount	8
16	900-5516	Deck Spring	2	34	200-0015	Body Mount Washer	4
17	900-2060	Battery	1	35	230-0010	Tail Weight, 13 lb.	(Opt.)



SEAT LID ASSEMBLY

Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	201-0004	Seat Lid	1	15	900-5700	Seat Lid Latch Spring	1
2	201-0010	Lever Lock	1	16	900-5501	Lever Lock Spring	1
3	200-0012	Latch, Lever Lock	1	17	900-2029	Safety Switch	1
4	200-0014	Bushing	5	18	900-5500	Handle Grip	2
5	200-0010	Bearing Block	4	19	900-5502	Steering Cable (1800 Prior to 41-027-012814)	2
6	200-0009	Steering Lever	2		900-5819	Steering Cable (1800 After 41-027-012814)	2
7	201-0015	Seat Lid Latch	1		900-5717	Steering Cable (2000)	2
8	201-0014	Seat Lid Latch Bolt	1	20	900-5503	Steering Cable Clamp (1800)	4
9	200-0013	Steering Cable End (1800)	4		900-5625	Steering Cable Clamp (2000)	4
	140-0023	Steering Cable End (2000)	4	21	200-0008	Lid Prop	1
10	201-0018	Seat Lid Harness Retainer	1	22	900-5813	Seat Rail Kit (Pair)	1
11	900-2001	Seat Switch	1	23	900-5767	Seat Spring	1
12	900-5597	Seat	1				
13		Arm Rest Kit (Optional)					
14	900-5523	Seat Spacer	4				



SINGLE & DUAL TAIL WHEEL ASSEMBLY

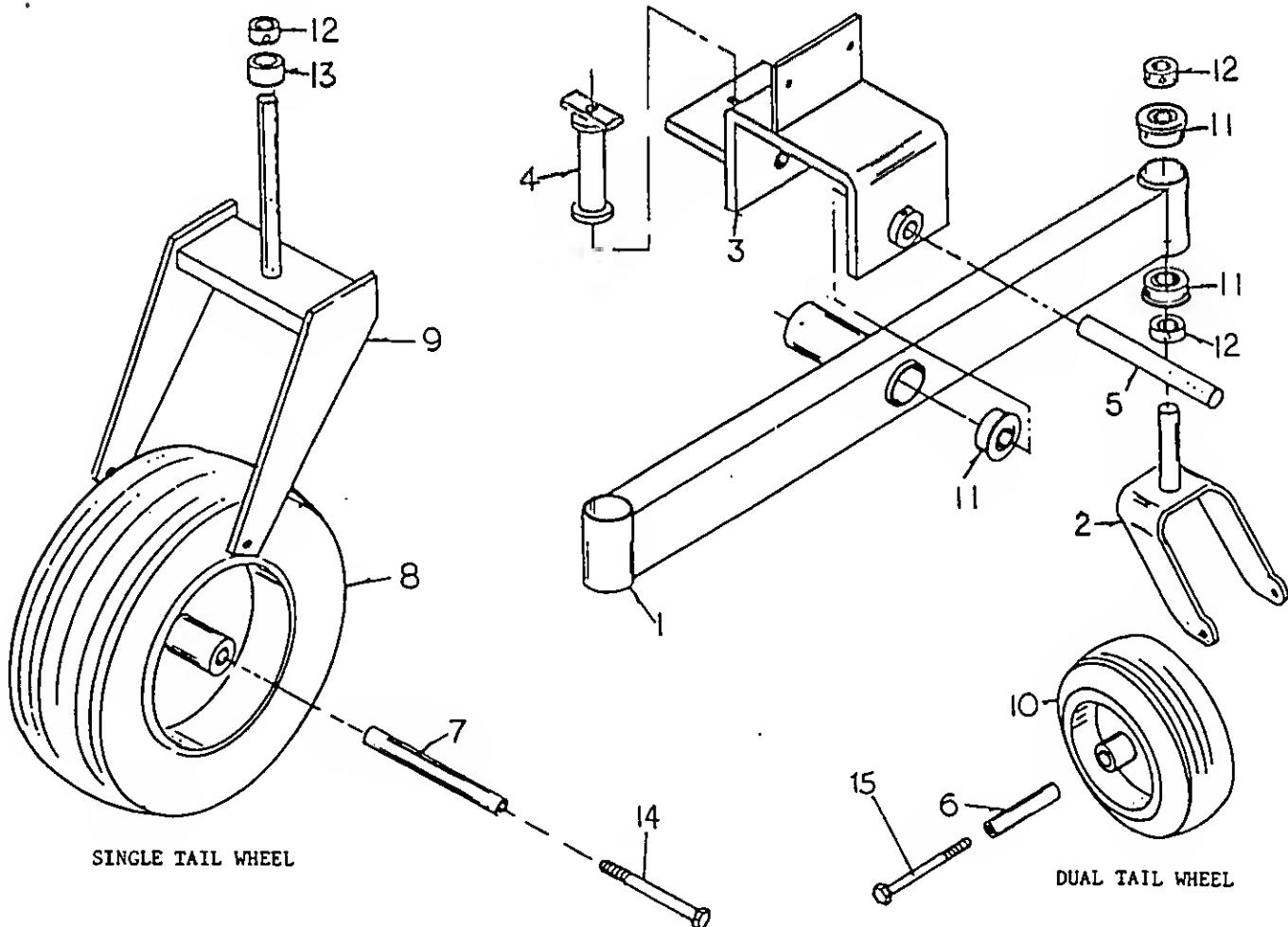
43

SINGLE TAIL WHEEL

Item	Order No.	Description	Qty.
7	230-0017	Axle	1
8	900-4017	Tail Wheel Assembly	1
9	900-3515	Bearing, Wheel Assembly	2
10	900-4018	Tire, 16 x 6.50-8	
11	900-4019	Rim, 8"	
12	230-0001	Tail Wheel Fork	1
13	900-5510	Set Collar, 1"	1
14	213-0003	Spacer, Tail Wheel Fork	1
15	900-6135	Hex Capscrew, 1/2-13 x 9 1/2"	1

DUAL TAIL WHEEL

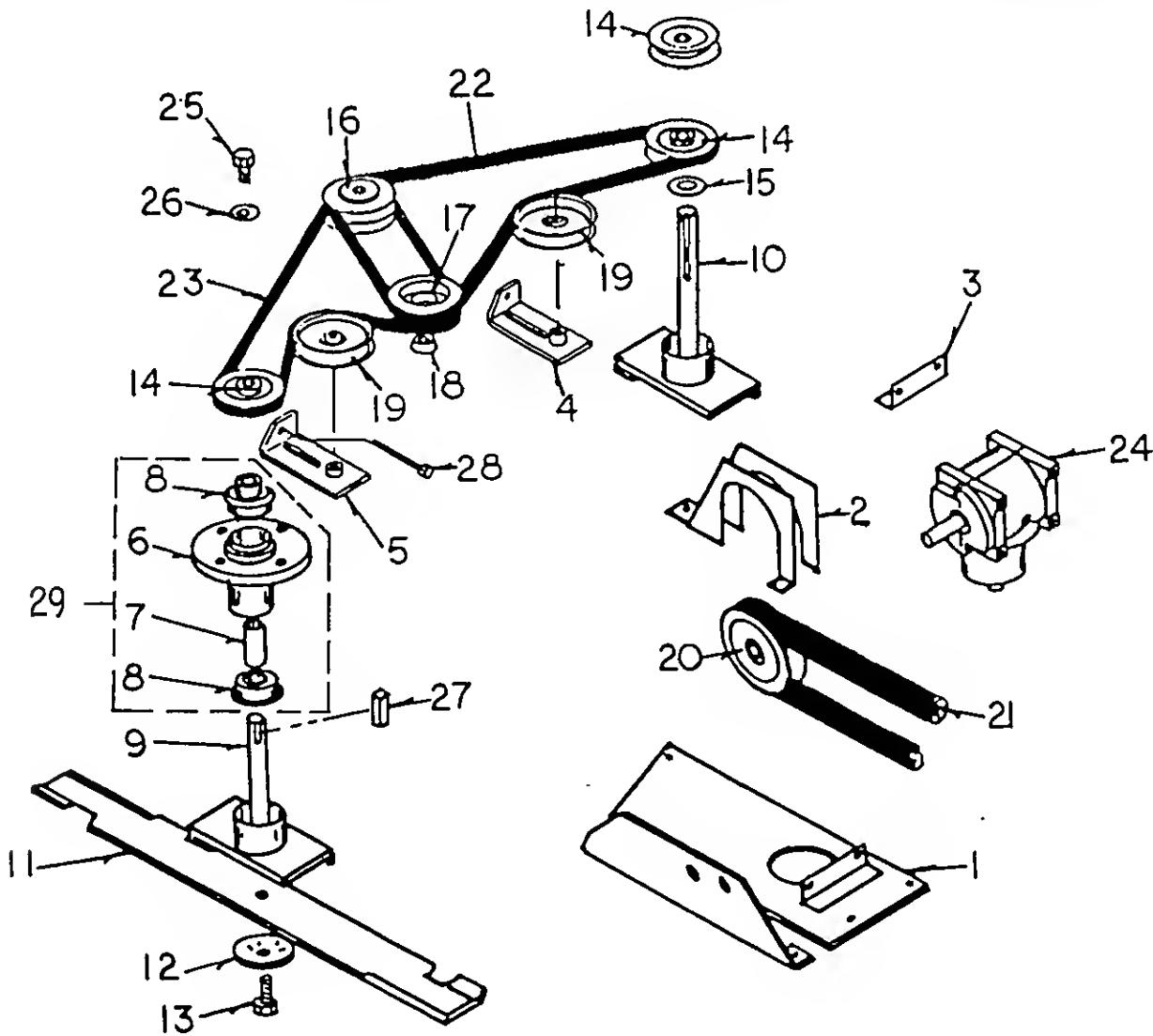
Item	Order No.	Description	Qty.
1	230-0004	Dual Tail Wheel Axle	1
2	230-0007	Dual Tail Wheel Fork	2
3	230-0005	Dual Tail Wheel Mount	1
4	230-0006	Dual Tail Wheel Tube Block	1
5	230-0008	Pivot Axle	1
6	200-0017	Tail Wheel Axle	2
7	900-4022	Tail Wheel Assembly	2
8	900-3505	Bearing, Wheel Assembly	-
9	900-4047	Tire, 13 x 5.00-6	-
10	900-4050	Rim, 6" x 4"	-
11	900-3501	Bearing, 1"	6
12	900-5510	Set Collar, 1"	4
13	900-6133	Hex Capscrew, 1/2-13 x 6 1/2"	2



42" DECK DRIVE

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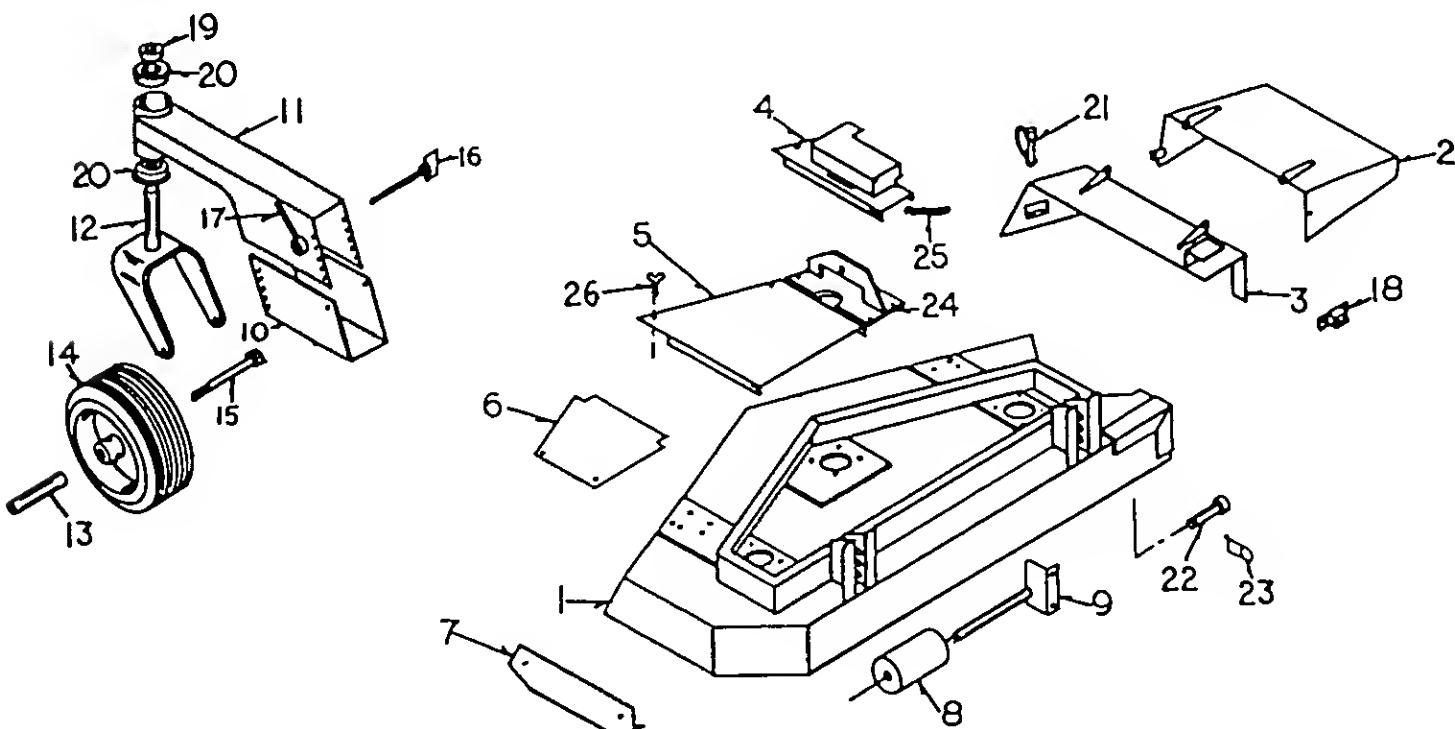
Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	311-0001	Gearbox Mount	1	18		Hub (Included w/800-2515)	1
2	311-0002	Belt Guard (1800)	1	19	900-2518	Idler Pulley	2
330-0030		Belt Guard (2000)	1	20	900-2525	Gearbox Pulley, Input (190-872-190)	1
3	310-0006	Gearbox Mount Angle	1	900-2543		Gearbox Pulley, Input (190-875-190)	1
4	300-0029	Belt Tightener	1	21	900-3004	Deck Drive Belt (190-872-190)	1
5	300-0030	Belt Tightener	1	22	900-3023	Deck Drive Belt (190-875-190)	2
6	300-0025	Spindle Housing	3	23	900-3006	Deck Belt	1
7	300-0027	Spindle Spacer	3	24	900-3007	Deck Belt	1
8	900-3506	Spindle Bearing	6	25	900-5842	Gearbox	1
9	300-0026	Spindle Shaft	2	26	900-6073	Hex Ny-Lock Bolt, 5/16-24 x 3/4"	3
10	300-0033	Spindle Shaft	1	27	300-6017	Washer, 5/16", 10 GA	3
11	900-5531	Blade (190-872-190)	3	28	300-0021	Key Stock, 3/16"	6
	900-5530	Blade (190-875-190)	3	29	600-0000	Spindle Housing Assembly (Includes Items 6, 7 & 8)	-
12	900-5534	Blade Washer	3	30	900-2528	Spindle Pulley (190-872-190)	1
13	900-6080	Hex Bolt, 3/8-24 x 1 1/4"	3		900-2507	Spindle Pulley (190-875-190)	1
14	900-2507	Spindle Pulley	2				
15	900-6002	Spacer Washer	9				
16	900-2516	Spindle Pulley, Double A	1				
17	900-2515	Gearbox Pulley, Output	1				



42" DECK PARTS

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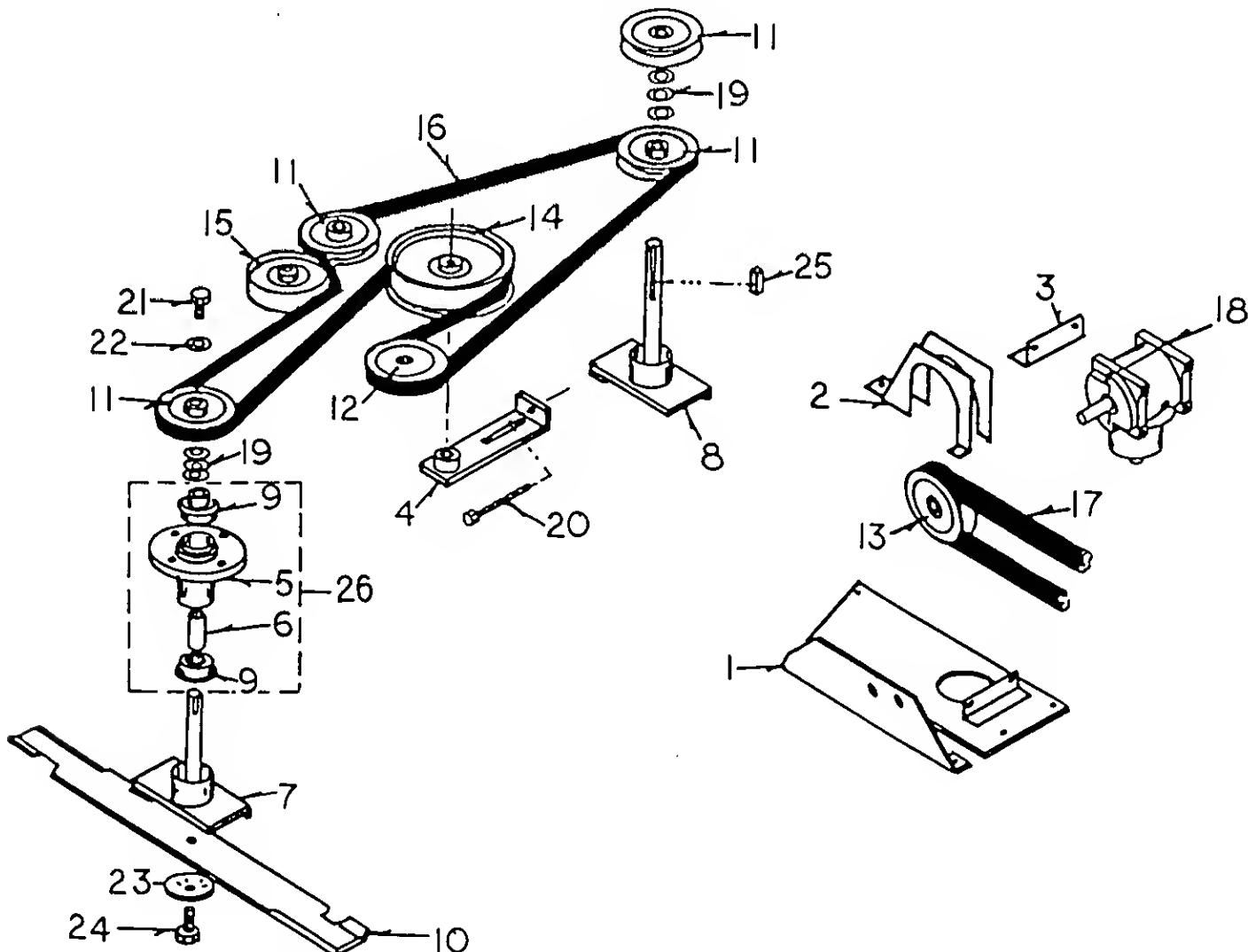
Item	Order No.	Description	Qty.	Item	Order No.	Description	Qty.
1	310-0000	Deck, 42"	1	14	900-4004	Gauge Wheel Assembly (2000)	2
2	320-0015	Foot Guard	1	900-4006	Tire, 11 x 4.00-5 (2000)	-	
3	320-0016	Foot Guard Mount	1	900-4005	Rim, 5" (2000)	-	
4	310-0002	Pulley Cover	1	900-3505	Bearing, Wheel Assembly (2000)	-	
5	310-0003	Center Cover	1	15	900-6036	Axle Bolt (1800)	1
6	300-0001	Cover, LH	1	900-6133	Axle Bolt (2000)	1	
7	310-0007	Shoe, LH	1	16	900-6096	Wing Bolt	4
8	900-5559	Anti-scalp Roller	1	17	900-6092	Handle Nut	4
9	300-0038	Shaft & Bracket	1	18	900-2044	10 Amp Circuit Breaker	1
10	300-0044	Gauge Wheel Mount Bracket	2	19	900-5510	Set Collar, 1"	2
11	300-0043	Gauge Wheel Mount	2	20	900-3501	Bearing, 1"	4
12	320-0018	Fork (1800)	2	21	900-5615	Fas-tatch Pin	1
	330-0007	Fork (2000)	2	22	900-5519	Deck Pin	2
13	320-0008	Axle (1800)	2	23	900-5520	Hair Pin Cotter	2
	200-0017	Axle (2000)	2	24	310-0004	Deck Mount	1
14	900-4020	Gauge Wheel Assembly (1800)	2	25	900-5562	Spring	1
	900-3510	Bearing, Wheel Assembly (1800)	-	26	900-6043	Thumb Screw, 1/4-20 x 1/2"	4



52" DECK DRIVE

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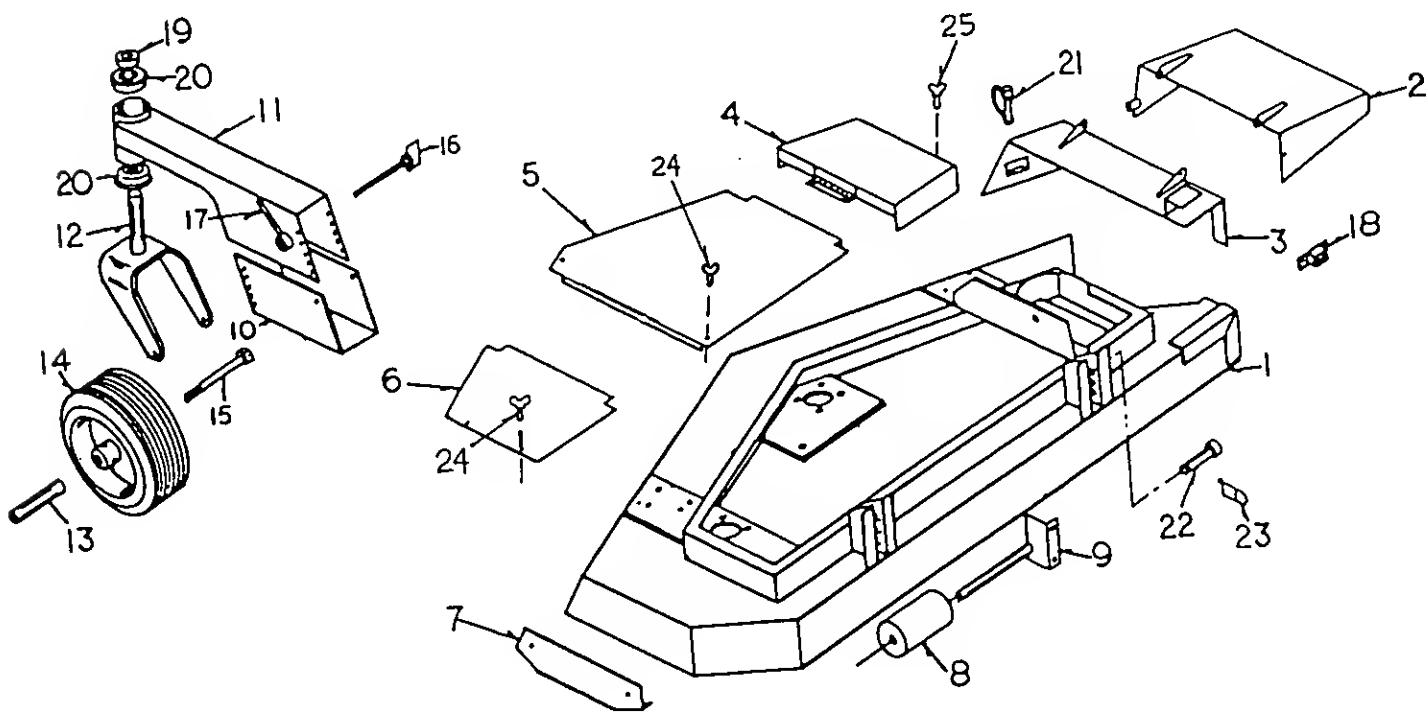
Item	Order No.	Description	Qty.	Order		Description	Qty.
				Item	No.		
1	321-0001	Gearbox Mount	1	14	900-2521	Idler Pulley, Large	1
2	311-0002	Belt Guard (190-873-190)	1	15	900-2522	Idler Pulley, Small	1
330-0030		Belt Guard (190-B76-190)	1	16	900-3005B	Deck Belt	1
3	310-0006	Gearbox Mount Angle	1	17	900-3004	Deck Drive Belt (190-873-190)	1
4	330-0012	Belt Tightener	1	900-3023		Deck Drive Belt (190-B76-190)	2
5	300-0025	Spindle Housing	3	18	900-5842	Gearbox	1
6	300-0027	Spindle Spacer	3	19	900-6002	Spacer Washer	12
7	300-0026	Spindle Shaft	2	20	900-6034	Adjustment Bolt	1
8	300-0033	Spindle Shaft, Long	1	21	900-6073	Hex Ny-Lock Bolt, 5/16-24 x 3/4"	3
9	900-3506	Spindle Bearing	6	22	300-0017	Washer, 5/16", 10 GA	3
10	900-5814	Blade	3	23	900-5534	Blade Washer	3
11	900-2511	Spindle Pulley	4	24	900-6080	Hex Bolt, 3/8-24 x 1 1/4"	3
12	900-2510	Gearbox Pulley, Output	1	25	300-0021	Key Stock, 3/16"	6
13	900-2525	Gearbox Pulley, Input (190-873-190)	1	600-0000		Spindle Housing Assembly (Includes Items 5, 6 & 9)	-
-	900-2543	Gearbox Pulley, Input (190-B76-190)	1				



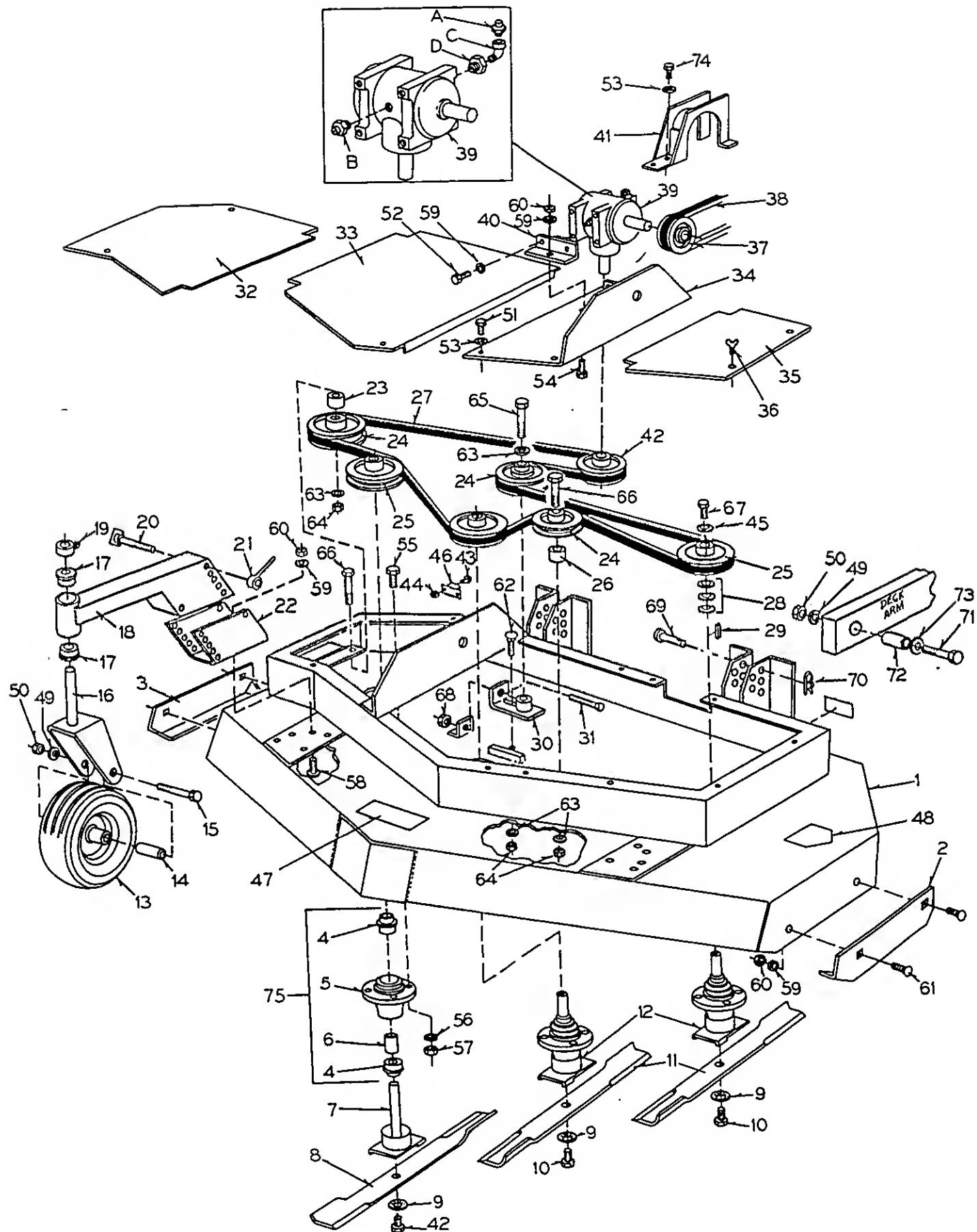
52" DECK PARTS

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Order Item No.			Order Item No.		
		Description	Qty.		Description
1	320-0000	Deck, 52"	1	900-4006	Tire, 11 x 4.00-5
2	320-0015	Foot Guard	1	900-4005	Rim, 5"
3	320-0016	Foot Guard Mount	1	900-3505	Bearing, Wheel Assembly
4	320-0011	Pulley Cover	1	15 900-6133	Axle Bolt
5	320-0002	Center Cover	1	16 900-6096	Wing Bolt
6	320-0001	Cover, LH	1	17 900-6092	Handle Nut
7	320-0014	Shoe, LH	1	18 900-2044	10 Amp Circuit Breaker
8	900-5559	Anti-scalp Roller	1	19 900-5510	Set Collar, 1"
9	300-0038	Shaft & Bracket	1	20 900-3501	Bearing, 1"
10	300-0044	Gauge Wheel Mount Bracket	2	21 900-5615	Fas-tatch Pin
11	300-0043	Gauge Wheel Mount	2	22 900-5519	Deck Pin
12	330-0007	Fork	2	23 900-5520	Hair Pin Cotter
13	200-0017	Axle	2	24 900-6043	Thumb Screw, 1/4-20 x 1/2"
14	900-4004	Gauge Wheel Assembly	2	25 900-6020	Wing Screw, 1/4-20 x 1"



52" REAR DISCHARGE DECK



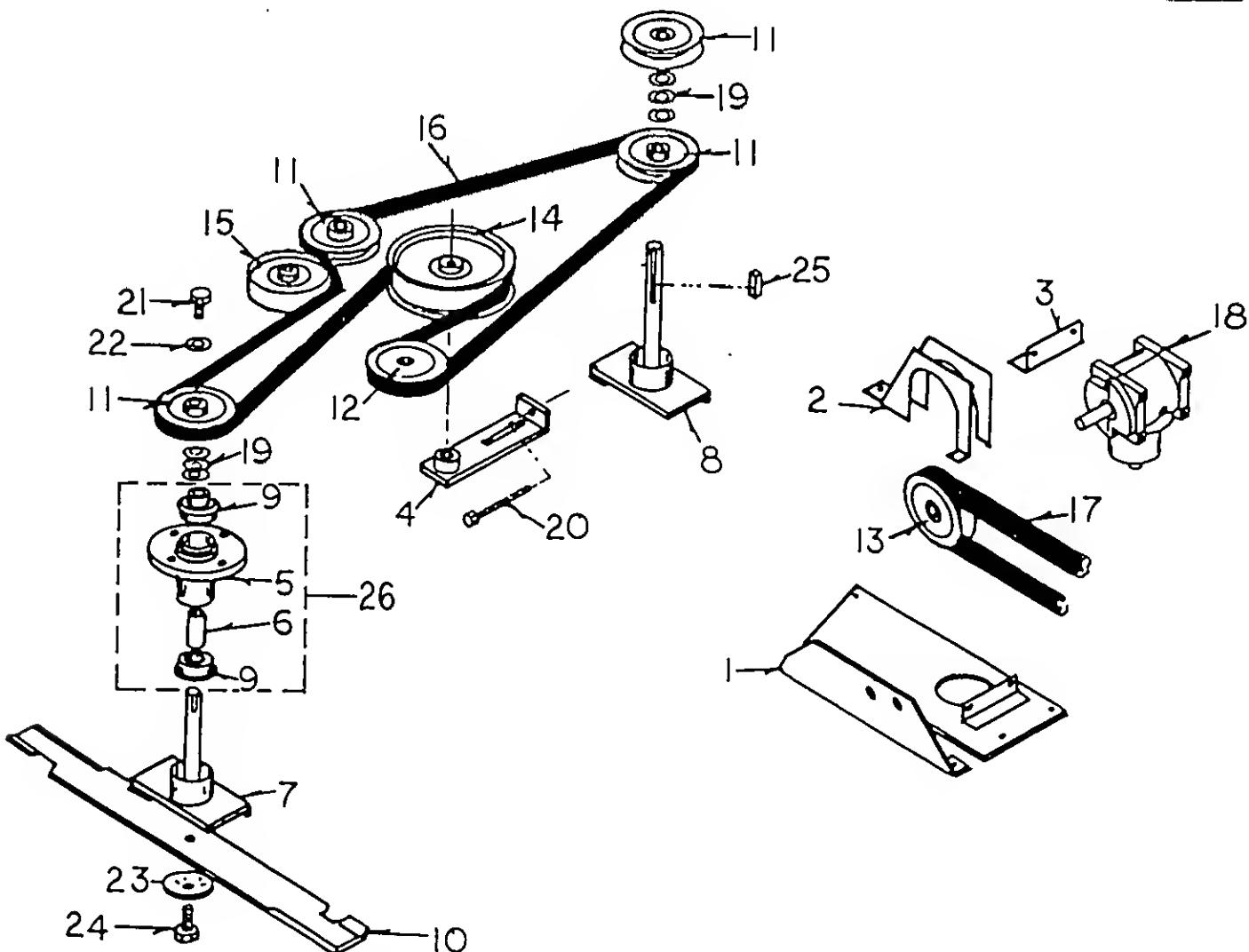
52" REAR DISCHARGE DECK PARTS

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	321-0000	Rear Discharge Deck, 52"	1	39	900-5842	Gearbox Assembly - Consisting Of:	1
2	320-0014	Shoe, LH	1	A		1 - 900-7004 Relief Valve	
3	321-0003	Shoe, RH	1	B		1 - 900-7053 Grease Zerk, 1/4" NPT	
4	900-3506	Spindle Bearing, 7/8" (ER-14)	6	C		1 - 900-5020 Street Elbow, 1/8" x 90"	
5	300-0025	Spindle Housing	3	D		1 - Pipe Bushing, 1/4" x 1/8"	
6	300-0027	Spindle Spacer	3	40	310-0006	Gearbox Mount Angle	1
7	321-0004	Spindle Shaft, LH Rotation	1	41	311-0002	Belt Guard	1
8	900-5914	Blade, LH Rotation (5814LH)	1	42	900-6106	Hex Bolt, 3/8-24 x 1 1/4", GR5, LH	1
9	900-5534	Blade Washer	3	43	•	Panhead Machine Screw, No. 10-32 x 1/2"	2
10	900-6080	Hex Bolt, 3/8-24 x 1 1/4", GR5	2	44	900-6150	Integral Star Washer Nut, No. 10-32	2
11	900-5814	Blade, RH Rotation	2	45	300-0017	Spindle Washer	3
12	300-0026	Spindle Shaft, 7/8"	2	46	900-2044	10 Amp Circuit Breaker	1
13	900-4004	Gauge Wheel Assembly	2	47	900-5542	Decal, Caution - Whirling Blade	1
	900-4006	Tire, 11 x 4.00-5	-	48	900-5549	Decal, Danger	1
	900-4005	Rim, 5"	-	49	•	Lockwasher, 1/2"	4
	900-3505	Wheel Assembly Bearing (ASF0108-6)	-	50	•	Hex Nut, 1/2-13	4
14	200-0017	Axle	2	51	•	Hex Capscrew, 1/4-20 x 3/4", GR5	5
15	900-6133	Hex Bolt, 1/2-13 x 6 1/2", GR2	2	52	•	Hex Capscrew, 5/16-18 x 1", GR5	4
16	330-0007	Gauge Wheel Fork	2	53	•	Lockwasher, 1/4"	7
17	900-3501	Drive Wheel Bearing, 1" (64F64PP)	4	54	•	Hex Capscrew, 5/16-18 x 3/4", GR5	1
18	300-0043	Gauge Wheel Mount	2	55	•	Hex Capscrew, 7/16-14 x 1 1/4", GR5	12
19	900-5510	Set Collar, 1"	2	56	•	Lockwasher, 7/16"	12
20	900-6096	Wing Bolt, 3/8-16 x 4 1/2"	4	57	•	Hex Nut, 7/16-14	12
21	900-6092	Handle Nut, 3/8-16	4	58	•	Carriage Bolt, 5/16-18 x 1", GR5	6
22	300-0044	Gauge Wheel Mount Bracket	2	59	•	Lockwasher, 5/16"	10
23	321-0005	Idler Pulley Spacer	1	60	•	Hex Nut, 5/16"	10
24	900-2558	Idler Pulley, 3/8" ID x 5" OD	3	61	•	Carriage Bolt, 5/16-18 x 3/4"	4
25	900-2557	Spindle Pulley, 7/8" ID x 4 1/2" OD	3	62	•	Carriage Bolt, 3/8-16 x 1"	1
26	300-0016	Idler Pulley Spacer	1	63	•	Lockwasher, 3/8"	4
27	900-3028	Deck Belt, BB129	1	64	•	Hex Nut, 3/8-16	3
28	900-6002	Spacer Washer	9	65	•	Hex Capscrew, 3/8-16 x 1 1/4", GR5	1
29	300-0021	Key, 3/16" x 3/16" x 1"	5	66	•	Hex Capscrew, 3/8-16 x 2 1/2", GR5	2
30	300-0015	Belt Tightener	1	67	900-6053	Hex Capscrew, 5/16-24 x 3/4", GR5	3
31	900-6034	Hex Tap Bolt, 1/4-20 x 4"	1	68	•	Elastic Stop Nut, 1/4-20	1
32	321-0002	Cover, RH	1	69	900-5519	Clevis Pin, 1/2" x 1 1/2"	2
33	320-0002	Cover, Center	1	70	900-5520	Hairpin Cotter, .120 x 2 1/4"	2
34	321-0001	Gearbox Mount	1	71	•	Hex Capscrew, 1/2-13 x 1 1/2", GR5	2
35	320-0001	Cover, LH	1	72	300-0013	Deck Lift Arm Bushing	2
36	900-6043	Thumb Screw, 1/4-20 x 1/2"	6	73	•	Flatwasher, 1/2"	2
37	900-2525	Gearbox Pulley, 3/4" ID x 4 1/2" OD	1	74	•	Hex Capscrew, 1/4-20 x 1/2", GR5	2
38	900-3004	Deck Drive Belt, B52	1	75	600-0000	Spindle Housing Assembly (Includes Items 4, 5 & 6)	3

*Standard Hardware Parts, Order Locally

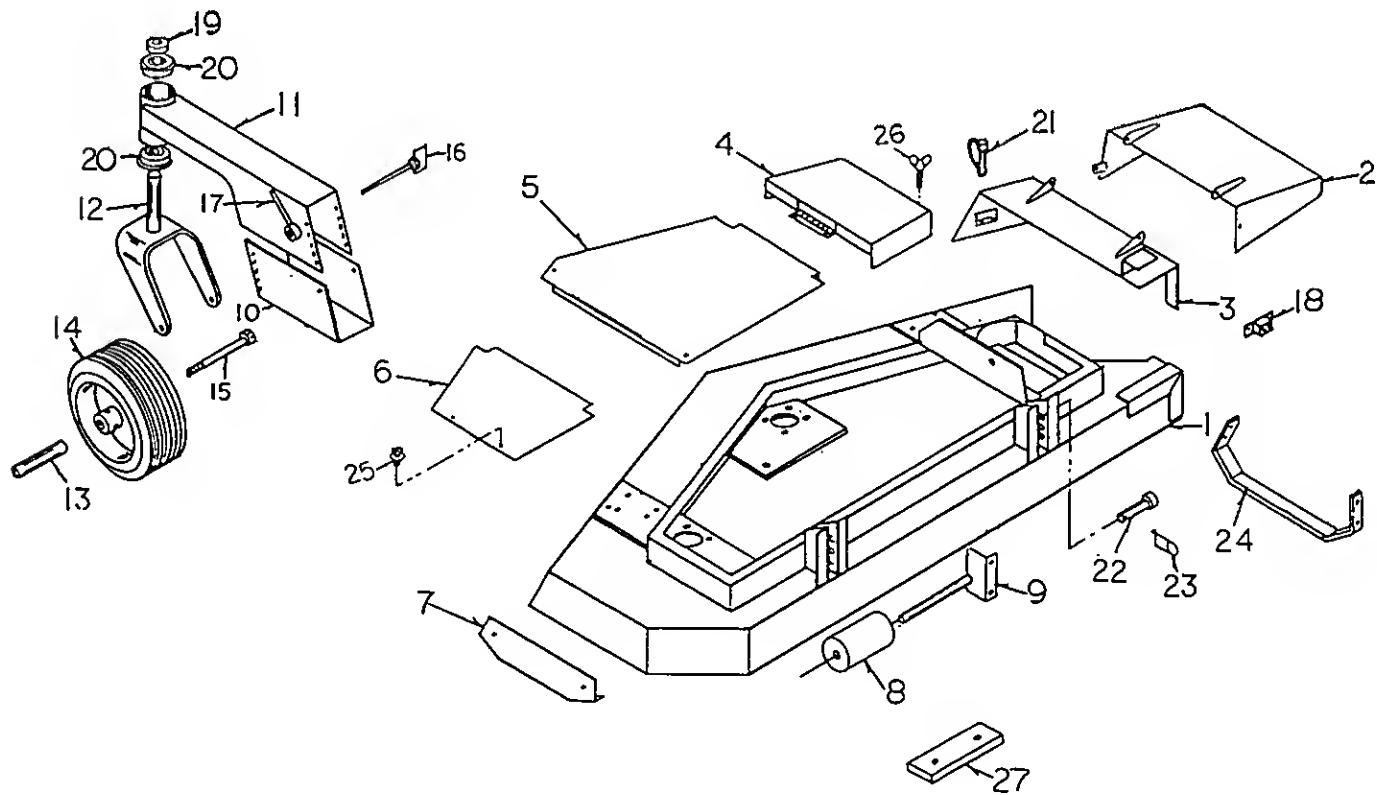
62" DECK DRIVE

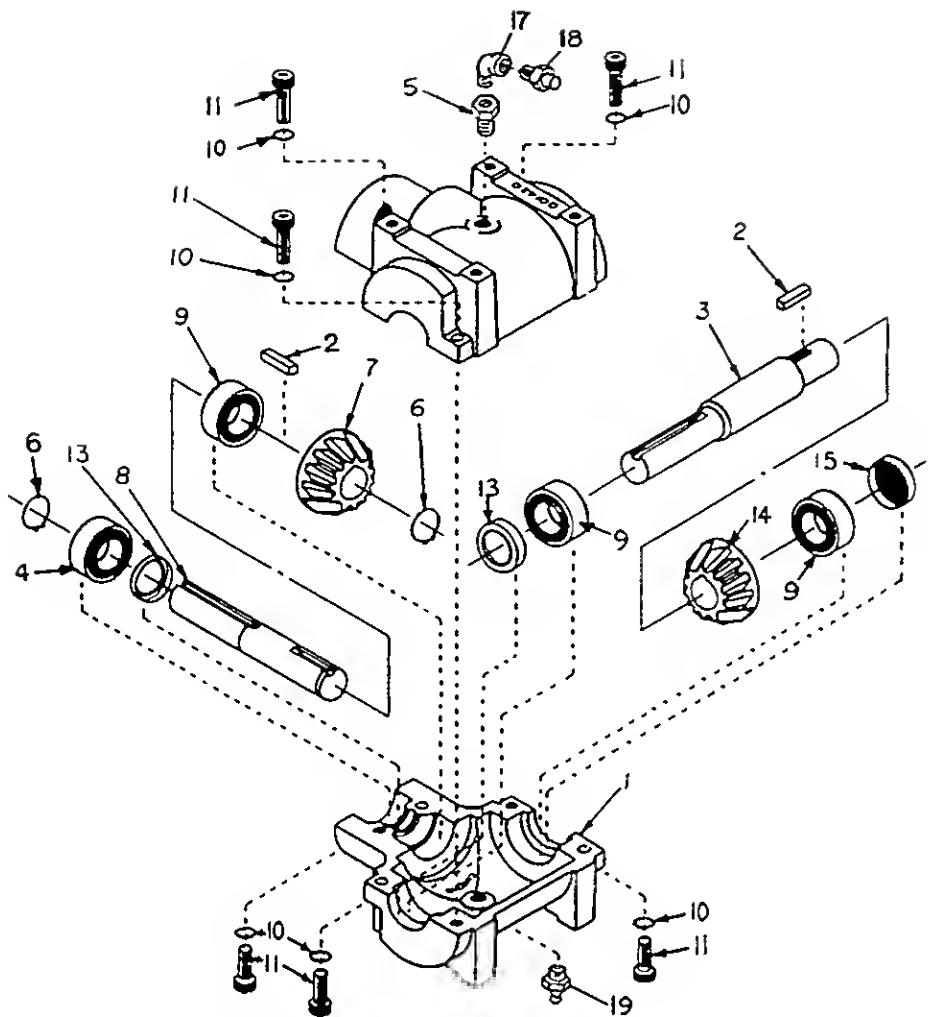
Order Item No. Description			Order Item No. Description		
	Qty.			Qty.	
1 331-0004	1	Gearbox Mount	14 900-2521	1	Idler Pulley, Large
2 311-0002	1	Belt Guard (190-874-190)	15 900-2522	1	Idler Pulley, Small
330-0030	1	Belt Guard (190-877-190)	16 900-3008B	1	Deck Belt
3 310-0006	1	Gearbox Mount Angle	17 900-3004	1	Deck Drive Belt (190-874-190)
4 330-0012	1	Belt Tightener	900-3023	2	Deck Drive Belt (190-877-190)
5 300-0031	3	Spindle Housing	18 900-5842	1	Gearbox
6 300-0034	3	Spindle Spacer	19 900-6002	12	Spacer Washer
7 300-0032	2	Spindle Shaft	20 900-6034	1	Adjustment Bolt
8 300-0040	1	Spindle Shaft, Long	21 900-6073	3	Hex Ny-Lock Bolt, 5/16-24 x 3/4"
9 900-3506	6	Spindle Bearing	22 300-0017	3	Washer, 5/16", 10 GA
10 900-5730	3	Blade	23 900-5534	3	Blade Washer
11 900-2512	4	Spindle Pulley	24 900-6080	3	Hex Bolt, 3/8-24 x 1 1/14"
12 900-2510	1	Gearbox Pulley, Output	25 300-0021	6	Key Stock, 3/16"
13 900-2525	1	Gearbox Pulley, Input (190-874-190)	600-0001	-	Spindle Housing Assembly (Includes Items 5, 6 & 9)
- 900-2543	1	Gearbox Pulley, Input (190-877-190)			



62" DECK PARTS

Order Item No. Description			Order Item No. Description		
		Qty.			Qty.
1	330-0000	Deck, 62"	1	900-4005	Rim, 5"
2	330-0027	Foot Guard	1	900-3505	Bearing, Wheel Assembly
3	330-0028	Foot Guard Mount	1	15	Axle Bolt
4	330-0025	Pulley Cover	1	16	Wing Bolt
5	330-0002	Center Cover	1	17	Handle Nut
6	330-0001	Cover, LH	1	18	10 Amp Circuit Breaker
7	330-0008	Shoe, LH	1	19	Set Collar, 1"
8	900-5559	Anti-scalp Roller	1	20	Bearing, 1"
9	300-0038	Shaft & Bracket	1	21	Fas-tatch Pin
10	300-0044	Gauge Wheel Mount Bracket	2	22	Deck Pin
11	300-0043	Gauge Wheel Mount	2	23	Hair Pin Cotter
12	330-0007	Fork	2	24	Shoe, RH
13	200-0017	Axle	2	25	Thumb Screw, 1/4-20 x 1/2"
14	900-4004	Gauge Wheel Assembly	2	26	Wing Screw, 1/4-20 x 1"
	900-4006	Tire, 11 x 4.00-5	-	27	Tail Weight, 13 Lb.





CURTIS GEARBOX PARTS LIST

Part No. 900-5842
(Curtis No. 920983)

Item	Order No.	Description	Qty.
1	900-7036	Housing Half	2
2	900-7001	Key, 3/16" x 3/16" x 1"	2
3	900-7037	Shaft	1
4	900-7008	Ball Bearing	1
5	15001	Pipe Bushing, 1/4" x 1/8"	1
6	900-7005	Retaining Ring	2
7	900-7038	Output Shaft Gear	1
8	900-7044	Shaft	1
9	900-7041	Ball Bearing	3
10	900-7009	Lockwasher	6
11	900-7010	Allenhead Capscrew	6
13	900-7042	Seal	2
14	900-7040	Input Shaft Gear	1
15	900-7043	Expansion Plug	1
16	900-5535	Gearbox	1
17	900-5020	Street Elbow, 1/8" x 90°	1
18	900-7004	Relief Valve	1
19	900-7053	Grease Zerk, 1/4" NPT	1
	999-2010	Grease, SHC-460	1

A scientifically formulated tire protection system for use in tires with 4 inch thru 12 inch rims.

Pneuma SealTM

LIFETIME LIMITED FLAT TIRE WARRANTY



COVERAGE:

Replacement Policy:

PneumaSeal is a premium tire maintenance product which, when installed in your new tubeless tires, provides protection against rim and bead leaks, tire porosity and punctures made by penetrating objects up to 1/4 inch diameter.

This life-of-the-tire (at least 2/32 inch of remaining tread) warranty assures you that, in the unlikely event your tubeless tire goes flat, the tire will be repaired or replaced (at dealer's discretion) free of charge. Read the whole warranty for all details.

Policy Limitations:

You must be the original purchaser and have had PneumaSeal injected in your new tire or tires by an authorized PneumaSeal Dealer or Manufacturing Plant.

Service Agreement:

WHITE OUTDOOR PRODUCTS COMPANY will reimburse the cost of flat repairing during the legal life of the tire (at least 2/32 inch of remaining tread), subject to the limitations stated below. WHITE OUTDOOR PRODUCTS COMPANY will reimburse the tire dealer for cost of repair.

Owner Obligations:

If your authorized dealer-branded PneumaSealed tubeless tire goes flat, you are eligible for the benefits stated above upon presentation of this limited warranty.

KEEP THIS WARRANTY REGISTRATION CARD THAT YOU RECEIVED WITH THIS WARRANTY. YOU WILL NEED THE CARD TO OBTAIN WARRANTY COVERAGE AND PERFORMANCE AS DESCRIBED ABOVE.

For any tire leak you cannot cure according to the procedures described on the warranty registration card, take the tire to your dealer along with the warranty registration card. Your tire will be fixed or replaced as described above. If your tire is removed by the dealer, or a new tire is installed, PneumaSeal will be injected in your tire and your warranty renewed.

This warranty does not cover:

Carcass splits or sidewall cuts or tread penetration created by objects larger than 1/4 inch diameter. Cost of towing. Willful or malicious damage or vandalism. Loss or damage due to accidents, collisions, fire, misuse, negligence or alteration. Loss of time, inconvenience, loss of vehicle use or any other incidental or consequential damage.

The replacement policy described above is the Buyer's sole remedy hereunder.

THERE ARE NO EXPRESS WARRANTIES WHICH EXIST BEYOND THE DESCRIPTION

TION OF THE FACE HEREOF, NO REPRESENTATIVE OR DEALER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION, PROMISE OR AGREEMENT ON BEHALF OF WHITE OUTDOOR PRODUCTS COMPANY. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE OR FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE LIMITED EXPRESSED WARRANTY DESCRIBED ABOVE.

LIMITATION OF DAMAGES:

WHITE OUTDOOR PRODUCTS COMPANY IS NOT LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PNEUMASEAL PRODUCT, INCLUDING ANY LOSS OF TIME, INCONVENIENCE, LOSS OF VEHICLE USE, OR ANY COST OR EXPENSE OF SUBSTITUTE VEHICLES DURING PERIODS OF MALFUNCTION OR NON-USE.

NOTE: Some states do not allow limitations on how long an implied warranty lasts or limitations or exclusions of incidental or consequential damages, so the limitations or exclusions in the two preceding paragraphs may not apply to you.

Legal Rights:

This limited warranty gives you specific legal rights and you may also have other rights which vary from State to State.

This limited warranty is applicable only in the United States of America.

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